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RECEIVED BY OSC C GEBIEN ON 12/11/02



Seneca Environmental Services

November 18, 2002

Mr. James Petrozzini
2012 N. Western Avenue
Chicago, IL 60647

Re: Former Electro Finishers
1662 West Fullerton Avenue
Chicago, IL

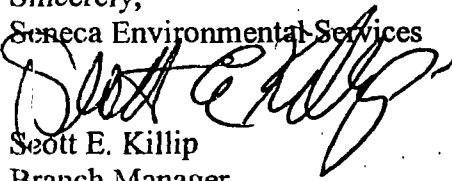
Dear Mr. Petrozzini:

Please find enclosed the final report for the site activities that we have completed at the referenced property. Comments generated during our November 7, 2002 meeting have been incorporated in the conclusions and recommendations section of the report.

Thank you for the opportunity to work on this project. Should you have any questions regarding this report, please call me at (563) 332-8000

Sincerely,

Seneca Environmental Services


Scott E. Killip
Branch Manager

cc: Lisa Kritt
Charles Gabien, U.S. EPA

Enclosure

Des Moines

P.O. Box 3360
4140 N.E. 14th Street
Des Moines, Iowa 50316-0360
515-262-3500
800-369-3500
515-262-2469 FAX

Bettendorf

17851 244th Avenue
Bettendorf, Iowa 52722
563-332-2272
800-728-6900
563-332-9465 FAX

REPORT OF SITE ASSESSMENT ACTIVITIES

Former Electro Finishers

1662 West Fullerton

Chicago, Illinois

U.S EPA ID B5R4

PREPARED BY

Seneca Environmental Services

17851 – 244th Avenue

Bettendorf, Iowa 52722

November 18, 2002

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1.0 BACKGROUND

1.1 Introduction and Site History

The subject property, Former Electro Finishers (FEF), is listed as having the addresses of 1654, 1660, 1662, and 1702 West Fullerton Avenue and is located near the northwest intersection of Fullerton and Clybourn Avenue, Chicago, Illinois (See Figure 1, Appendix A). The subject property is currently owned by Mr. James Petrozinni. There are four brick Buildings on the property that are contiguous, Buildings A through D (see Figure 2, Appendix A). The Buildings are currently used to store miscellaneous automobile parts.

Indications from prior investigations are that the property was used for electroplating various items, primarily large hydraulic cylinders. Plating activities reportedly were conducted primarily in Building A and Building B. Past investigations also indicate that chemicals of concern (COCs) have been detected in the mortar, brick, and soil at FEF (See Table 1, Appendix B). These COCs include lead, total chromium and most notably, hexavalent chromium (CR^{+6}) from a TCLP extract. Additionally, chromium was detected in the mortar and in a sump, presumably containing groundwater, in a residential dwelling located contiguous and to the west of the subject property. These COCs were also identified in a unilateral Administrative Order issued by U.S. EPA on November 26, 2001.

Mr. Charles Gabien On-Scene Coordinator, Office of Superfund, Region V U.S. EPA performed administration during this project. Based on correspondence with U.S. EPA, immediate and primary concerns regarding the subject property are conditions that were identified in previous environmental assessments and reports that included: 1) chromium precipitate on the interior and exterior of Building A, 2) soil contaminated with lead and chromium located in the northwest site yard, 3) chromium precipitate located in the basement of a residential Building located adjacent to the west property line of the subject property (Building A), and 4) an underground storage tank (UST) located in Building B. Given these conditions, the assessment efforts documented in this report addressed the concerns of U.S. EPA.

2.0 SITE MOBILIZATION

2.1 Site Activities

On site activities that were completed during the investigative activities included:

- Contaminant source delineation in soil and groundwater.
- Hydrogeologic assessment.
- COC removal activities.
- UST investigation and sampling.

3.0 SAMPLING ACTIVITIES

3.1 Soil Sampling and Analysis

Ten soil borings were drilled during the implementation of this work plan to determine the source concentrations and extent of lead and chromium contaminants in the subsurface soils (see Figure 2, Appendix A for locations). Sampling was performed using a Geoprobe sampler. Soil samples were continuously collected until a clay stratum was reached or probe refusal was encountered.

A minimum of three samples from each boring were submitted to a laboratory for analysis, including one sample from the vadose zone at approximately 3 feet below ground surface (BGS), one at the groundwater interface at approximately 7 feet BGS and one at a depth below the groundwater, at 13 feet BGS.

Soil samples were containerized in 4-ounce glass jars and placed on ice for shipment to a laboratory. Samples were analyzed for CR^{+6} , and lead and total chromium from a TCLP extract.

Initial subsurface sampling efforts consisted of utilizing a hand auger at various locations in Buildings A and B and in the northwest yard of area on May 8, 2002. Despite repeated attempts, auger refusal was encountered at approximately two to three feet below ground

surface (BGS). Two samples were collected from the shallow borings at that time, B5 at 2.5 feet BGS (located near the center of the northwest yard area) and B2, located coincidental to location B8. Analysis results of CR⁺⁶ from B5 indicated elevated levels of TCLP similar to previous sampling efforts in the northwest yard area, although the results are an approximate order of magnitude less than the previous results.

Results of the analysis indicate elevated levels of CR⁺⁶ in sample locations B3, B4, B5, B6, B7, and B10. Lead was not detected in the TCLP extract at detection levels exceeding 0.10 ppm to 0.4 ppm. Depths of the COC CR⁺⁶ and total chromium appear sporadic, with the greatest concentration (520 ppm) found at three feet in location B10. See Appendix B for soil analysis results. Figures and Tables showing the detected levels of chromium and the respective depths from where they were collected are found in Appendix C.

The levels of chromium in soil were compared to the Illinois Tiered Approach to Cleanup (TACO) levels that are applicable to contaminated properties (see Table 1, Appendix C). TACO is used by the state of Illinois to determine human health risk associated with COCs found at contaminated sites. Three soil pathways and corresponding remediation objectives are considered for TACO, soil component of the groundwater ingestion, inhalation exposure and direct ingestion. Two sets of remediation objectives and corresponding remediation objectives are used, residential and non-residential zoning. The soil component remediation objectives for chromium are irrespective of zoning designations. Both designations and remediation objectives are discussed in this narrative. Any use of remediation objectives based on a non-residential scenario would require a deed restriction on the affected property that restricts the use of the property as commercial/industrial (non-residential).

The soil component of groundwater is the most restrictive (lowest) allowable contaminant level for evaluation of contaminated sites. This pathway, however, can be excluded when considering remediation objectives if it can be demonstrated that groundwater in the area of the release will not be consumed as drinking water and that the contaminated groundwater will not migrate to points of groundwater withdrawal for consumption or to surface water bodies.

An ordinance currently exists that prohibits the installation of groundwater wells for consumption of groundwater. This ordinance has been reviewed and approved by Illinois EPA

for use as a method to exclude the groundwater pathway. Since the source of drinking water is Lake Michigan and that virtually all tap water is supplied by the Cities' distribution system, it is reasonable to assume that this pathway can be excluded. Groundwater modeling would most likely need to be completed to show the COC migration potential and substantiate the request for pathway exclusion.

Given the exclusion of the groundwater consumption pathway, the next most restrictive pathway using TACO is the direct soil ingestion pathway with a corresponding chromium remediation objective of 230 ppm followed by the inhalation pathway objective of 270 ppm. Based on the results of the analysis, three sample locations exceed 230 ppm for chromium, B4, B6 and B10. These locations also exceed 270 ppm. If the property is considered for residential use, these locations would need to be remediated to meet the TACO objectives. If non-residential considerations are used for the remediation objectives, a value of 420 ppm is used for industrial/commercial inhalation considerations of chromium followed by an objective of 4,100 ppm for construction work ingestion.

TACO considerations for remediation objectives also allow the use of engineered barriers to exclude pathways. This includes the use of surface coverings such as concrete to disallow the possibility of contact with soil by human receptors. If such barriers are in place and a deed restriction documenting a requirement of maintenance of such barriers, the pathway can be excluded. Given a source value of 520 ppm (B10), the source does not exceed the construction worker ingestion pathway for industrial properties and can be addressed using an institutional control.

3.2 Groundwater Monitoring Well Installation

Ten groundwater monitoring wells were installed in each of the ten soil boring locations. The wells were constructed of 2-inch polyvinyl chloride (PVC) casing, and perforated PVC well screens. Well TMW1 and TMW2 were temporary wells installed in the alleyway to the west of FEF, wells MW3 through MW10 were installed inside Buildings A and B (see Figure 2).

3.3 Hydrogeologic Investigation

Boings were continuously sampled with Geoprobe sampler and were logged by a qualified

geologist to record lithologic changes and the depth of the water table. This data was transcribed to a well log so that a comprehensive profile (cross section maps) of the subsurface was completed. (See Appendix D for well logs; Figures 3 and 4 [Appendix E] display a geologic cross section of the affected area and the line of section, respectively.)

After completion of the monitoring wells, qualified field personnel completed a site survey of elevations based on a common datum point to all wells. After water levels stabilized in the monitoring wells, ground water levels accurate to 0.01 feet were measured wells MW3 through MW9 (see Table 2, Appendix E for well elevation data). Groundwater in MW10 was absent due to probe refusal above the groundwater elevation.

Based on the well data a piezometric surface map of the uppermost groundwater elevations (see Figure 5, Appendix E). Indications are that the groundwater gradient is relatively flat, with an approximate 1.85-foot difference in elevation over a distance of 90 feet, having a flow direction to the southwest and gradient of 0.02.

Uppermost, unconfined groundwater typically moves in areas similar to this site toward the nearest surface water body. The site flow direction would be consistent with the location of the Chicago River, which is located approximately 1,000 feet to the southwest.

Slug testing was completed at wells MW4, MW7, and MW9. The slug tests were performed by removing a known volume (slug) from the wells and measuring the rate of groundwater recovery. Recovery was measured with a depth to water meter and the results were downloaded into the Bouwer-Rice Slug (BR Slug) software program. The rates of recovery were plotted verses time on a logarithmic graph so that the conductivity of the upper most groundwater table was determined.

Conductive values ranged from 4.03×10^{-1} to 1.33×10^{-2} meters/day (m/day). (See Appendix E for conductivity data.) These values would be consistent with conductivities for groundwater found in clay and would not typically be utilized for extraction or potable purposes due to an extremely low yield.

3.4 Groundwater Sampling and Analysis

Temporary wells were sampled using a peristaltic pump. Wells MW3 through MW9 were sampled utilizing disposable sample bailers. A groundwater sample was not collected from MW10 due to the lack of groundwater at that location. Water samples collected for lead and total chromium metal analysis were containerized in 750 ml plastic bottles and preserved with nitric acid so that the pH of the sample is less than 2. Samples analyzed for CR⁺⁶ were not preserved using nitric acid per sample analysis protocol. All samples were placed into an iced cooler prior to shipment.

Groundwater samples were collected at each well in the following manner:

- The groundwater levels were measured with a calibrated depth to water meter accurate to 0.01 feet and the water column height were calculated.
- Three well volumes of groundwater were purged.
- After the third well volume was removed, the groundwater was measured in the field for pH, specific conductance and temperature.
- Groundwater samples were collected for total and dissolved COCs. Samples to be analyzed for dissolved COCs were field filtered using a 0.45-micron filter.
- Observations of the groundwater conditions and the field measurements were recorded in a field notebook.

3.5 Groundwater Analysis Results

Dissolved lead was not detected in the groundwater above detection limits exceeding 0.1 ppm in all samples except MW9, where an elevated detection limit of 0.5 ppm was recorded. Total lead was detected in wells TMW1, TMW2, MW6, MW7 and MW9 (see Table 4, Appendix E for groundwater analysis results. A map showing the locations and detection levels of lead are presented in Appendix E).

Elevated levels of CR⁺⁶ were observed in wells MW3, MW4 and MW6. A low level of CR⁺⁶ was observed in MW7. Total chromium was analyzed in TMW1 and TMW2 as a quality

control check for the samples analyzed for CR⁺⁶ since the holding time for the CR⁺⁶ samples were exceeded by approximately four hours for those two locations.

The locations of the four wells where CR⁺⁶ was detected in the groundwater are consistent with the groundwater gradient and the area where the dip tanks were reported to have been located (in the west portion of Building A). With the samples from TMW1 and TMW2, the plume appears to be largely defined using the available areas for sampling. Additional wells to define the groundwater southwest of MW4 and MW3 would be problematic due to the lack of area where they could be installed.

Given the high concentrations found at MW3, MW4 and MW6, it is likely that the COC CR⁺⁶ has migrated to the west and southwest from the site. However, due to a lack of area(s) where wells can be placed for sampling and the lack of access for well installation at the Zadrozny residence, it is unlikely that further significant definition of the groundwater plume can be achieved at offsite locations.

If TACO rules are applied to the groundwater contaminants, the pathway would likely be excluded due to the accepted ordinance that prohibits groundwater well installations for potable purposes. Further research regarding reported well locations (see Appendix F for reported well locations) and computer modeling would most likely be needed to exclude the pathway and conform to IEPA TACO rules.

4.0 REMOVAL ACTIVITIES

4.1 Site Cleanup Activities

Cleanup activities to address immediate and primary concerns regarding the subject property were undertaken during the site activities and are discussed further in Section 4.2.

An inspection of the subject property was made during 1999 to determine if friable asbestos was present that would present a hazard to human health. The results of the inspection indicated that asbestos was present in limited areas of the investigation area (see Appendix H).

4.2 Decontamination and Encapsulation Activities

Indications from previous investigations are that chromium contaminated precipitate is evident on the façade of Building A. Painted heavy-duty plywood, secured with anchor bolts was emplaced over the façade of Building A to prohibit direct contact with the precipitate. This measure removed the direct contact pathway for the COC.

Areas of visible chromium precipitate accumulation were physically removed during the investigation using hand tools and vacuum cleaners. Additionally, a sodium bisulfate solution was applied to the areas. These areas included the interior of Building A and B and the interior of the residential basement to the west of the subject property. The following narrative describes the decontamination and encapsulation activities at the FEF site.

May 7, 2002 – Seneca mobilized to the FEF property and gained access to Zadrozny basement at 1704 West Fullerton Ave. The Zadrozny basement area was inspected photographs of areas where yellow staining was evident were taken. These areas included the lower three feet of the surface of a chimney located in the north/central area of the basement and the south wall of the basement. Stained mortar and yellow precipitate at these areas were removed with hand tools and vacuumed with a portable vacuum cleaner. The vacuum was equipped with a Gore Tex filter and a drywall (type) dust bag to eliminate fugitive dust emissions. An application of 10% sodium bisulfate solution was applied to the affected areas and followed by a coat of basement sealer latex paint. Three additional applications of “Kills” were made on the areas after the sealer dried. Despite the application of the solution and heavy applications of paint, minor yellow staining was still apparent that appeared to leach through the paint, although friable particulates were absent.

Cleanup activities were conducted in Building A and B at FEF, which consisted of removing yellow precipitate that was evident on the walls of both structures and in cracks observed in the floor in the southwest area of Building A (the reported location of plating dip tanks). Removal of the material was conducted with hand tools and a vacuum. Notable conditions during the effort were additional areas of precipitate encountered below layers of paint that had begun to peel. This was most evident on the north wall of Building A where precipitate was observed from the floor area to the ceiling level, approximately 20 feet from the floor. Also notable were the condition of the red brick construction materials that forms the structure walls. An

inspection of the interior of a brick that was removed from the wall of Building A indicated that the pore area of the brick were saturated with a yellow material, presumably chromium waste. Materials removed from the wall areas were containerized in a 55-gallon drum and sealed.

May 8, 2002 - A fourth application of paint was made at the Zadrozny basement with similar results that were encountered on May 7.

Additional areas of Building A and B underwent removal efforts similar to methods used on May 7. Concrete was applied to the floor area of Building A where yellow precipitate was observed in the cracks in the floor to encapsulate the cracks and prevent further precipitate from forming. Yellow precipitate was removed from the majority of areas where it was encountered in large volumes and friable conditions. Areas where precipitate had flaked off the walls and collected on the floor were cleaned using hand tools followed with a vacuum. The materials were containerized in a 55-gallon drum.

A heavy-duty plastic tarp was placed over a debris pile located in the fenced area north of Building A. The tarp was weighted down with boards and rocks to keep it in place. This was completed per U.S. EPA approval to prevent offsite migration of debris material.

May 9, 2002 – Additional manual removal work was undertaken. Seneca met with Mr. Petrozinni and Mr. Charles Gabien at the FEF site. Mr. Gabien observed the areas where removal activities had occurred in Buildings A and B and observed the fenced area north of Building A. During the meeting it was observed that yellow staining was reemerging from areas where removal efforts had been conducted.

June 20, 2002 – Seneca mobilized to the site to complete the subsurface investigation and to assess the effects of the May removal activities.

Observations of the Zadrozny basement area where removal activities were undertaken indicated that a patching compound (Dryvet) had been placed over such areas by the owner, Mr. Zadrozny. He indicated that the yellow staining had reemerged from the areas where Seneca had undertaken removal of yellow precipitate followed by paint application. Mr. Zadrozny placed the patching compound over these areas shortly after Seneca's removal

attempts.

A meeting was held with Mr. Zadrozny and Mr. Gabien on the 20th to discuss the status of his basement area, Mr. Zadrozny appeared confident that his efforts would satisfy his concerns regarding the occurrence of yellow staining and precipitate in his basement area. He also indicated that he had installed a sump in his basement approximately 15 years ago, which has prevented the occurrence of (potentially contaminated) water in his basement since that time. Mr. Zadrozny declined an offer by Mr. Gabien to sample the soil in his back yard to determine if chromium was present in the soil. Mr. Zadrozny also indicated that he did not want any more work completed on his property to address the potential conditions presented by the presence of the FEF property.

Observations made at the FEF site with Mr. Gabien included the extensive areas of Buildings A and B where yellow precipitate was removed during the May activities. While these areas were essentially precipitate free following the May removal activities, it had reemerged at these areas equal to the volume that was present prior to the May activities. Based on these observations, it was concluded that the brick was saturated with (system) chromate and that the migration of it onto surface inside the Building was relatively aggressive and rapid.

4.3 UST Sampling and Removal

A fuel oil UST is located inside and in the northwest corner of Building B. The UST was accessed as part of the cleanup activities and sampled so that the contents were determined for compatibility and hazardous waste determination, based on previous activities at the site. Analysis includes chromium, cyanide and PCBs. (See Appendix I for analysis results)

Based on the results of the analysis, the levels of chromium exceed the RCRA standards for chromium. This is ⁵not likely the result of migration of chromium-affected surface water and/or affected groundwater infiltrating into the UST.

17 mg/kg
Chromium
2007
5.0 mg/l
TCLP

Based observations made during the investigation and on the conditions of the UST, a request for an exemption for its removal has been presented to the Chicago Department of environment, the governing (home rule) agency for USTs in Chicago (see Appendix J). The observations and condition for the exemption include:

- The UST is a fuel oil UST and is exempt from UST regulations for mandatory removal.
 - It is a pre-1974 UST, which also makes it exempt from UST regulations for removal.
 - The UST is located in the interior of the Building and near a support beam for it.
- Removal of the UST would undermine the structural integrity of the Building.

The decision by the CDEM regarding the UST is pending.

5.0 CONCLUSIONS and RECOMENDATIONS

Application of TACO considerations would most likely close the groundwater ingestion pathway. TACO considerations may also be employed to close the soil ingestion and inhalation pathways. An engineered barrier would most likely need to be emplaced in the area of exposed soil on the outside northwest corner of the Building due to high levels of lead and chromium observed in surface soils in the past. This would require application of a suitable layer of concrete or asphalt and a deed restriction that addresses the maintenance of it. A similar deed restriction would have to be emplaced for the interior floor area of the Building to address the chromium compounds found in the subsurface below the Building.

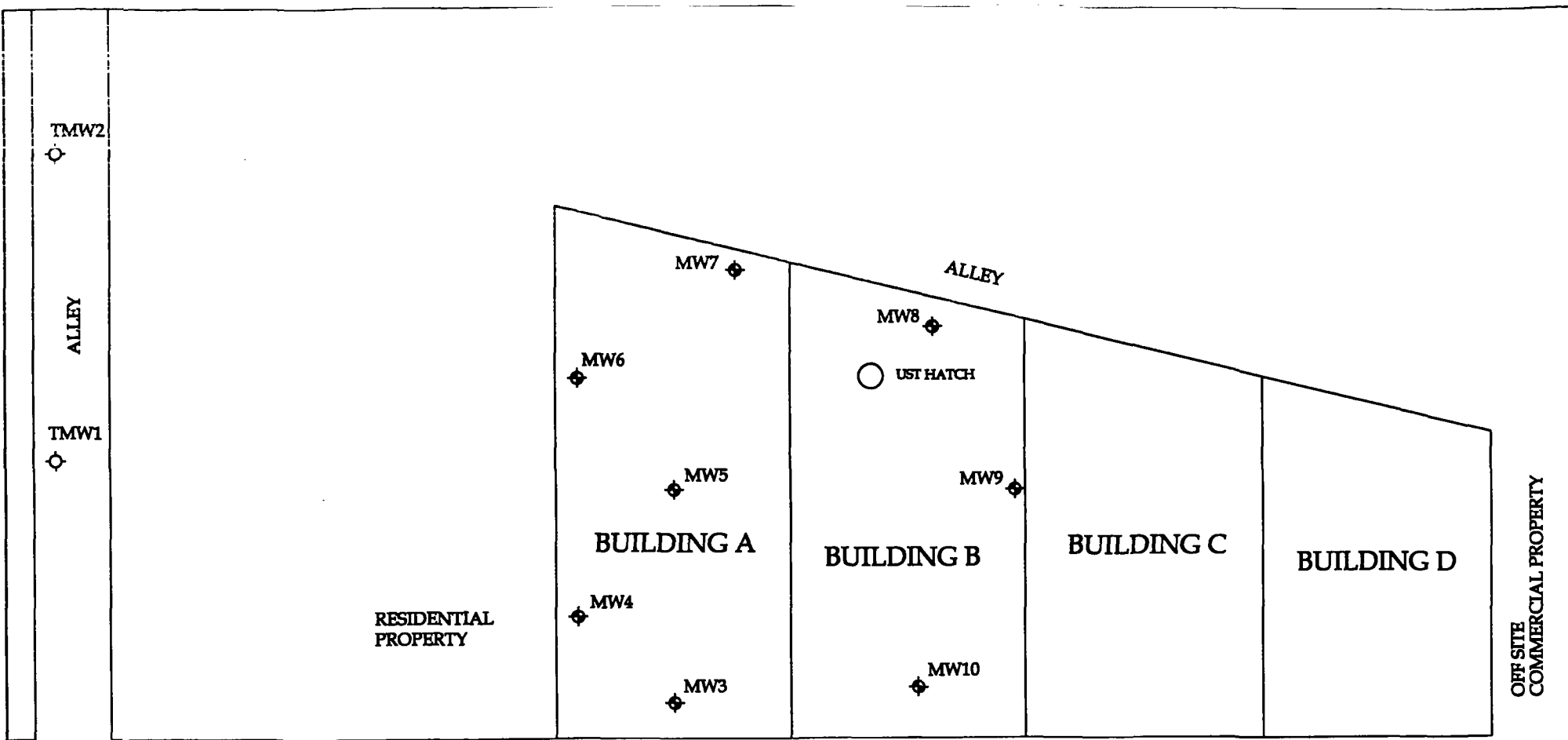
If TACO is used as a determination of the remedial objectives at the site, future land use would determine which objectives would be applicable. If a residential land use scenario is considered for the site, lower concentrations of soil contaminants would need to be considered. Non-residential land use would consider significantly higher remediation objectives.

The presence of the chromate precipitate on the interior and exterior of Buildings A and B appear to be the result of an aggressive and rapidly precipitating chromate waste that are saturated in portions of the brick at the site. Manual removal of the precipitate did not affect a permanent remedy to its occurrence. Given these properties, two possible remedial applications can be made, encapsulating the affected areas with durable and permanent material or source removal of the brick and underlying media. Source removal would most likely have the greatest effect on the occurrence of the chromate waste but would most likely incur the greatest costs to

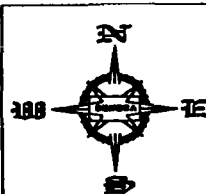
employ.

Encapsulation of the brick interior wall portions of the Building using a spray foam insulation material that hardens to a ridged finish would prohibit direct exposure of chromium precipitate and would provide insulation to the Building at an acceptable cost. The plywood sheeting used to cover the exterior wall area on Fullerton Avenue would need to be replaced with a more permanent material such as ridged, high-density, thick plastic, if encapsulation is chosen for the exterior areas. Documentation of the remedial action would likely need to be placed on the deed for the property.

APPENDIX A – SITE MAPS



- TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS



FILE NAME: FEF
PROJECT NO: 6219801



Seneca
Environmental Services

SITE: FORMER ELECTRO FINISHERS
321 WEST FULLERTON AVENUE
CHICAGO, ILLINOIS
SITE PLAN MAP

LUST#: N/A
SCALE: 1" = 30'

REVIEWED BY: SK
DRAWN BY: RLH

FIGURE 2

REVISED: 08/05/02

DATE: 02/19/02

APPENDIX B – SOIL ANALYSIS RESULTS

ANALYTICAL REPORT

1 of 1

SENECA ENVIRONMENTAL
SCOTT KILLIP
1851 244TH AVENUE
BETTENDORF, IA 52722

Project Name: FORMER ELECTRO FINIS
Contract #: 1799
Project #: 6219801
Folder #: 26097
Purchase Order #: 157005
Arrival Temperature: See COC
Report Date: 5/15/02
Date Received: 5/10/02
Reprint Date:

CTI LAB#:	126017	Sample Description:	B5 @ 2.5'	Sampled:	5/8/02	1000
-----------	--------	---------------------	-----------	----------	--------	------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Inorganic Results										
TCLP Hexavalent Chromium	450	ug/L	6.0	20	5		5/14/02	5/14/02	MMC	EPA 7196A
Metals Results										
TCLP Chromium	0.487	mg/L	0.00071	0.0024	1		5/14/02	5/14/02	NAH	EPA 6010B
TCLP Lead	0.0398	mg/L	0.0014	0.0046	1		5/14/02	5/14/02	NAH	EPA 6010B

CTI LAB#:	126018	Sample Description:	B2 @ 3'	Sampled:	5/8/02	0800
-----------	--------	---------------------	---------	----------	--------	------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Inorganic Results										
TCLP Hexavalent Chromium	<1.2	ug/L	1.2	3.9	1		5/14/02	5/14/02	MMC	EPA 7196A
Metals Results										
TCLP Chromium	<0.00071	mg/L	0.00071	0.0024	1		5/14/02	5/14/02	NAH	EPA 6010B
TCLP Lead	0.00704	mg/L	0.0014	0.0046	1		5/14/02	5/14/02	NAH	EPA 6010B

Notes: * Indicates Value in between LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

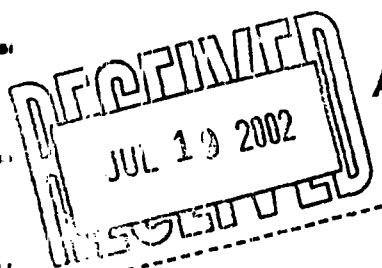
Submitted by: PM

Record Reviewer

WI DNR Lab Certification Number: 15-7066030
DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

ANALYTICAL AND QUALITY CONTROL REPORT



Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
632081	B-7 12' Project #6219801	06/20/2002	06/22/2002
632082	B-8 3' Project #6219801	06/20/2002	06/22/2002
632083	B-8 7' Project #6219801	06/20/2002	06/22/2002
632084	B-8 12' Project #6219801	06/20/2002	06/22/2002
632085	B-9 3' Project #6219801	06/20/2002	06/22/2002
632086	B-9 7' Project #6219801	06/20/2002	06/22/2002
632087	B-9 13' Project #6219801	06/20/2002	06/22/2002
632088	B-10 3' Project #6219801	06/20/2002	06/22/2002
632089	B-10 7' Project #6219801	06/20/2002	06/22/2002
632090	UST Content Project #6219801	06/20/2002	06/22/2002

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Kristin Clay
Project Manager

TestAmerica

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ANALYTICAL REPORT

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Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682061	SAMPLE DESCRIPTION B-1 3' Project #6219801					DATE-TIME TAKEN 06/20/2002 07:40			
Chromium, hexavalent	<3.0	MSO	mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.4		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1780		
ICP ICLP METALS		IE							
TCLP Chromium (ICP)	<0.040		mg/L	0.020	07/03/2002	heh	1780	1650	SW 6010B
TCLP Lead (ICP)	<0.20		mg/L	0.10	07/03/2002	heh	1780	1652	SW 6010B
TCLP EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311
SAMPLE NO. 682062	SAMPLE DESCRIPTION B-1 7' Project #6219801					DATE-TIME TAKEN 06/20/2002 07:45			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.3		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1779		
ICP ICLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/01/2002	heh	1779	1645	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L		07/01/2002	heh	1779	1647	SW 6010B
TCLP EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311

IE - Elevated Reporting Limit due to interelement interference.

MSO - MS and/or MSD are out of control for this analyte

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ANALYTICAL REPORT

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Scott Killip
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17351 244th Avenue
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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682063	SAMPLE DESCRIPTION B-1 13' Project #6219801					DATE-TIME TAKEN 06/20/2002 08:05			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.3		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1780		
ICP TCLF METALS		IE							
TCLF Chromium (ICP)	<0.060		mg/L	0.020	07/03/2002	llw	1780	1650	SW 6010B
TCLF Lead (ICP)	<0.30		mg/L	0.10	07/03/2002	heh	1780	1652	SW 6010B
TCLF EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311
SAMPLE NO. 682064	SAMPLE DESCRIPTION B-2 3' Project #6219801					DATE-TIME TAKEN 06/20/2002 08:50			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.1		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1779		
ICP TCLF METALS									
TCLF Chromium (ICP)	<0.020		mg/L	0.020	07/01/2002	llw	1779	1645	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/01/2002	heh	1779	1647	SW 6010B
TCLF EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311

IE - Elevated Reporting Limit due to interelement interference.

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ANALYTICAL REPORT

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Scott Killip
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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682065	B-2 7' Project #6219801					06/20/2002 08:55			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.1		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1779		
ICP TCLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/01/2002	llw	1779	1645	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/01/2002	heh	1779	1647	SW 6010B
TCLP EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682066	B-2 13' Project #6219801					06/20/2002 09:00			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.0		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1779		
ICP TCLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/01/2002	llw	1779	1645	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/01/2002	heh	1779	1647	SW 6010B
TCLP EXTRACTION	complete				06/25/2002	jlc	1390		SW 1311

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Scott Killip
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07/17/2002

Job Number: 02.07542

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Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682067	SAMPLE DESCRIPTION B-3 3' Project #6219801					DATE-TIME TAKEN 06/20/2002 09:45			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.8		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	heh	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L		07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO. 682068	SAMPLE DESCRIPTION B-3 8' Project #6219801					DATE-TIME TAKEN 06/20/2002 09:50			
Chromium, hexavalent	40		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.0		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	0.027		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311

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Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
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07/17/2002

Job Number: 02.07542

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Analyst	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682069	B-3 12' Project #6219801					06/20/2002 10:00			
Chromium, hexavalent	140		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.8		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	1.8		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682070	B-4 3' Project #6219801					06/20/2002 10:10			
Chromium, hexavalent	98		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.2		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	1.8		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311

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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyst	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682071	B-4 7' Project #6219801					06/20/2002 10:15			
Chromium, hexavalent	390		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	4.1		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	66		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN			
682072	B-4 13' Project #6219801					06/20/2002 10:30			
Chromium, hexavalent	390		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.9		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLP METALS									
TCLP Chromium (ICP)	15		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311

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Scott Killip
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Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyste	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682073	SAMPLE DESCRIPTION B-5 3' Project #6219801				DATE-TIME TAKEN 06/20/2002 10:40				
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.3		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLF METALS									
TCLF Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLF EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO. 682074	SAMPLE DESCRIPTION B-5 8' Project #6219801				DATE-TIME TAKEN 06/20/2002 10:45				
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.0		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1781		
ICP TCLF METALS									
TCLF Chromium (ICP)	0.026		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLF EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311

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Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN			
682075			B-5 12' Project #6219801			06/20/2002 10:50			
Chromium, hexavalent	6.8		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.9		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1781		
ICP ANALYTES									
TCLF Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLF EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN			
682076			B-6 3' Project #6219801			06/20/2002 11:00			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.9		units	0.1	06/28/2002	sas		1348	SW 9045
TCLF Metals Digest	Complete				06/28/2002	tdo	1781		
ICP ANALYTES									
TCLF Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLF EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311

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Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
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Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.	SAMPLE DESCRIPTION				DATE-TIME TAKEN				
682077	B-6 7' Project #6219801				06/20/2002 11:10				
Chromium, hexavalent	180		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	4.4		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				06/28/2002	tdo	1781		
ICP ICP METALS									
TCLP Chromium (ICP)	32		mg/L	0.020	07/02/2002	llw	1781	1646	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1781	1648	SW 6010B
TCLP EXTRACTION	complete				06/26/2002	jlc	1391		SW 1311
SAMPLE NO.	SAMPLE DESCRIPTION				DATE-TIME TAKEN				
682078	B-6 10' Project #6219801				06/20/2002 11:15				
Chromium, hexavalent	370		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	7.1		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP ICP METALS									
TCLP Chromium (ICP)	26	N,*	mg/L	0.020	07/02/2002	heh	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311

* - Sample concentration is greater than four times the spike concentration

N - Spike recovery for this analyte is out of control

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ANALYTICAL REPORT

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17851 244th Avenue
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07/17/2002

Job Number: 02.07542

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Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682079	SAMPLE DESCRIPTION B-7 3' Project #6219801					DATE-TIME TAKEN 06/20/2002 11:55			
Chromium, hexavalent	11		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	8.1		units	0.1	06/28/2002	sas		1348	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP ICP METALS									
TCLP Chromium (ICP)	0.706		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.20	R	mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO. 682080	SAMPLE DESCRIPTION B-7 6' Project #6219801					DATE-TIME TAKEN 06/20/2002 12:00			
Chromium, hexavalent	9.4		mg/kg	3.0	06/26/2002	lbb		96	SW 7196A
Solid pH Measured in Water	12.3		units	0.1	06/28/2002	sas		1349	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1783		
ICP ICP METALS		IE							
TCLP Chromium (ICP)	<0.080		mg/L	0.020	07/05/2002	heh	1783	1652	SW 6010B
TCLP Lead (ICP)	<0.40		mg/L		07/05/2002	heh	1783	1654	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311

IE - Elevated Reporting Limit due to interelement interference.

R - Reporting limit elevated due to matrix interferences

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17851 244th Avenue
P.O. Box 1208
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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation	Date	Analyst	Prep	Run	Method Reference
				Limit	Analyzed	Initials	Batch	Batch	
						No.	No.	No.	
SAMPLE NO.	SAMPLE DESCRIPTION						DATE-TIME TAKEN		
682081	B-7	12'	Project #6219801				06/20/2002 12:10		
Chromium, hexavalent	<3.0	MSO	mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	7.9		units	0.1	06/28/2002	sas		1349	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP ICLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO.	SAMPLE DESCRIPTION						DATE-TIME TAKEN		
682082	B-8	3'	Project #6219801				06/20/2002 12:25		
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	8.2		units	0.1	06/28/2002	sas		1349	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP ICLP METALS									
TCLP Chromium (ICP)	0.023		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311

MSO - MS and/or MSD are out of control for this analyte

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07/17/2002

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Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682083	SAMPLE DESCRIPTION B-8 7' Project #6219801				DATE-TIME TAKEN 06/20/2002 12:30				
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	7.4		units	0.1	06/28/2002	sas		1349	SW 9045
TCLE Metals Digest	Complete				07/01/2002	tdo	1782		
ICP TCLE METALS									
TCLE Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLE Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLE EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO. 682084	SAMPLE DESCRIPTION B-8 12' Project #6219801				DATE-TIME TAKEN 06/20/2002 12:35				
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	8.0		units	0.1	06/28/2002	sas		1349	SW 9045
TCLE Metals Digest	Complete				07/03/2002	tdo	1784		
ICP TCLE METALS									
TCLE Chromium (ICP)	<0.020		mg/L	0.020	07/03/2002	heh	1784	1651	SW 6010B
TCLE Lead (ICP)	<0.10		mg/L	0.10	07/03/2002	heh	1784	1653	SW 6010B
TCLE EXTRACTION	complete				07/01/2002	jlc	1393		SW 1311

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SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682085	SAMPLE DESCRIPTION B-9 3' Project #6219801					DATE-TIME TAKEN 06/20/2002 12:45			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	7.5		units	0.1	06/28/2002	sas		1349	SW 9045
TCLF Metals Digest	Complete				07/01/2002	tdo	1782		
ICP TCLF METALS									
TCLF Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLF EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO. 682086	SAMPLE DESCRIPTION B-9 7' Project #6219801					DATE-TIME TAKEN 06/20/2002 12:50			
Chromium, hexavalent	<3.0		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	7.1		units	0.1	06/28/2002	sas		1349	SW 9045
TCLF Metals Digest	Complete				07/01/2002	tdo	1782		
ICP TCLF METALS									
TCLF Chromium (ICP)	0.076		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLF EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311

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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN			
682087			B-9 13' Project #6219801			06/20/2002 13:00			
Chromium, hexavalent	10		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	7.8		units	0.1	06/28/2002	sas		1349	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP TCLP METALS									
TCLP Chromium (ICP)	<0.020		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN			
682088			B-10 3' Project #6219801			06/20/2002 13:10			
Chromium, hexavalent	520		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	6.7		units	0.1	06/28/2002	sas		1349	SW 9045
TCLP Metals Digest	Complete				07/01/2002	tdo	1782		
ICP TCLP METALS									
TCLP Chromium (ICP)	37		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
TCLP Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
TCLP EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311

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ANALYTICAL REPORT

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Scott Killip
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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 682089	SAMPLE DESCRIPTION B-10 7' Project #6219801				DATE-TIME TAKEN 06/20/2002 13:15				
Chromium, hexavalent	43		mg/kg	3.0	06/26/2002	lbb		97	SW 7196A
Solid pH Measured in Water	6.9		units	0.1	06/28/2002	sas		1349	SW 9045
ICLF Metals Digest	Complete				07/01/2002	tdo	1782		
ICP (ICLF METALS)									
ICLF Chromium (ICP)	5.2		mg/L	0.020	07/02/2002	llw	1782	1647	SW 6010B
ICLF Lead (ICP)	<0.10		mg/L	0.10	07/02/2002	heh	1782	1649	SW 6010B
ICLF EXTRACTION	complete				06/28/2002	jlc	1392		SW 1311
SAMPLE NO. 682090	SAMPLE DESCRIPTION UST Content Project #6219801				DATE-TIME TAKEN 06/20/2002 15:00				
Cyanide, Amenable	<0.5		mg/kg	0.5	06/28/2002	lbb		686	SW 9010
Cyanide, Total	4.5		mg/kg	1.0	06/28/2002	lbb		568	SW 9012
ICP Metals Prep (Solid)	1.029		g		06/26/2002	mzm	1211		
ICP Metals-Solid	Complete		mg/kg		07/06/2002	heh		1537	SW 6010B
Chromium, ICP	17		mg/kg	1.0	07/06/2002	heh	1211	2036	SW 6010B
Prep PCB'S OIL	complete				06/24/2002	kak	1152		SW 3580
PCB'S - (OIL)									
PCB-016	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082

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07/17/2002

Job Number: 02.07542

Client Project ID: Former Electro Finishers

Analyte	Result	Flag	Units	Quantitation	Date	Analyst	Prep	Run	Method Reference
				Limit	Analyzed	Initials	Batch No.	Batch No.	
SAMPLE NO.	SAMPLE DESCRIPTION				DATE-TIME TAKEN				
682090	UST Content Project #6219801				06/20/2002 15:00				
PCB-1221	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1232	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1242	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1248	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1254	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1250	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB-1258	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
PCB's - Total	<2.0		ug/g	2.0	06/26/2002	kak	1152	1643	SW 8082
Tetrachlorometaxylene (Surr.)	99		%		06/26/2002	kak	1152	1643	
Decachlorobiphenyl (Surr.)	95		%		06/26/2002	kak	1152	1643	

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Date Flag Analyzed
Chromium, hexavalent		96	0.300	mg/kg	0.3047	102	06/26/2002
Chromium, hexavalent		96	0.300	mg/kg	0.3050	102	06/26/2002
Chromium, hexavalent		96	0.300	mg/kg	0.3144	105	06/26/2002
Chromium, hexavalent		96	0.300	mg/kg	0.3097	103	06/26/2002
Chromium, hexavalent		96	0.300	mg/kg	0.3092	103	06/26/2002
Chromium, hexavalent		97	0.300	mg/kg	0.3144	105	06/26/2002
Chromium, hexavalent		97	0.300	mg/kg	0.3097	103	06/26/2002
Chromium, hexavalent		97	0.300	mg/kg	0.3092	103	06/26/2002
Cyanide, Amenable		686	237.5	ug/L	241	102	06/26/2002
Cyanide, Amenable		686	118.8	ug/L	122	103	06/26/2002
Cyanide, Total		568	237.5	ug/L	241	102	06/26/2002
Cyanide, Total		568	118.8	ug/L	122	103	06/26/2002
Solid pH Measured in Water		1348	7.00	units	7.03	100	06/26/2002
Solid pH Measured in Water		1348	7.00	units	7.03	100	06/26/2002
Solid pH Measured in Water		1348	4.00	units	4.01	100	06/26/2002
Solid pH Measured in Water		1348	7.00	units	7.03	100	06/26/2002
Solid pH Measured in Water		1348	4.00	units	4.01	100	06/26/2002
Solid pH Measured in Water		1349	7.00	units	7.01	100	06/26/2002
Solid pH Measured in Water		1349	4.00	units	4.01	100	06/26/2002
ICP Metals-Solid		1537	1.0	mg/L	1.0	100	07/06/2002
Chromium, ICP		2036	5.0	mg/L	5.14	103	07/06/2002
Chromium, ICP		2036	5.0	mg/L	5.07	101	07/06/2002
ICP TCLP METALS							
TCLP Chromium (ICP)		1645	5.00	mg/L	4.98	100	07/01/2002
TCLP Chromium (ICP)		1646	5.00	mg/L	4.98	100	07/02/2002
TCLP Chromium (ICP)		1646	5.00	mg/L	4.94	99	07/02/2002
TCLP Chromium (ICP)		1647	5.00	mg/L	4.86	97	07/02/2002
TCLP Chromium (ICP)		1647	5.00	mg/L	4.86	97	07/02/2002
TCLP Chromium (ICP)		1650	5.00	mg/L	5.06	101	07/03/2002
TCLP Chromium (ICP)		1651	5.00	mg/L	5.06	101	07/03/2002
TCLP Chromium (ICP)		1651	5.00	mg/L	5.08	102	07/03/2002
TCLP Chromium (ICP)		1652	5.00	mg/L	4.83	97	07/05/2002

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
TCLP Lead (ICP)		1647	5.00	mg/L	4.84	97		07/01/2002
TCLP Lead (ICP)		1648	5.00	mg/L	4.96	99		07/02/2002
TCLP Lead (ICP)		1648	5.00	mg/L	4.86	97		07/02/2002
TCLP Lead (ICP)		1649	5.00	mg/L	4.86	97		07/02/2002
TCLP Lead (ICP)		1649	5.00	mg/L	4.89	98		07/02/2002
TCLP Lead (ICP)		1649	5.00	mg/L	5.02	100		07/02/2002
TCLP Lead (ICP)		1649	5.00	mg/L	4.89	98		07/02/2002
TCLP Lead (ICP)		1652	5.00	mg/L	5.11	102		07/03/2002
TCLP Lead (ICP)		1653	5.00	mg/L	5.11	102		07/03/2002
TCLP Lead (ICP)		1653	5.00	mg/L	5.04	101		07/03/2002
TCLP Lead (ICP)		1653	5.00	mg/L	5.04	101		07/03/2002
TCLP Lead (ICP)		1653	5.00	mg/L	5.11	102		07/03/2002
TCLP Lead (ICP)		1654	5.00	mg/L	4.86	97		07/05/2002
TCLP Lead (ICP)		1654	5.00	mg/L	4.91	98		07/05/2002
PCB'S - (OIL)								
PCB-1242		1643	0.96	ppm	0.927	97		06/26/2002
PCB'S - (OIL)								
PCB-1242		1643	0.96	ppm	0.950	99		06/26/2002

QUALITY CONTROL REPORT BLANKS

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Quantitation Limit	Date Analyzed
Chromium, hexavalent		96	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		96	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		96	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		96	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		96	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		97	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		97	<3.0		mg/kg	3.0	06/26/2002
Chromium, hexavalent		97	<3.0		mg/kg	3.0	06/26/2002
Cyanide, Anenable		686	<0.5		mg/kg	0.5	06/28/2002
Cyanide, Total		568	<1.0		mg/kg	1.0	06/28/2002
Chromium ICP	1211	2031	<0.020		mg/L	1.0	07/06/2002
ICP TCLP METALS							
TCLF Chromium (ICP)	1779	1645	<0.020		mg/L	0.020	07/01/2002
TCLF Chromium (ICP)	1781	1646	<0.020		mg/L	0.020	07/02/2002
TCLF Chromium (ICP)	1782	1647	<0.020		mg/L	0.020	07/02/2002
TCLF Chromium (ICP)	1780	1650	<0.020		mg/L	0.020	07/03/2002
TCLF Chromium (ICP)	1784	1651	<0.020		mg/L	0.020	07/03/2002
TCLF Chromium (ICP)	1783	1652	<0.020		mg/L	0.020	07/05/2002
TCLF Lead (ICP)	1779	1647	<0.10		mg/L	0.10	07/01/2002
TCLF Lead (ICP)		1648	<0.10		mg/L	0.10	07/02/2002
TCLP Lead (ICP)	1782	1649	<0.10		mg/L	0.10	07/02/2002
TCLP Lead (ICP)		1649	<0.10		mg/L	0.10	07/02/2002
TCLP Lead (ICP)	1780	1652	<0.10		mg/L	0.10	07/03/2002
TCLP Lead (ICP)	1784	1653	<0.10		mg/L	0.10	07/03/2002
TCLP Lead (ICP)		1653	<0.10		mg/L	0.10	07/03/2002
TCLP Lead (ICP)		1654	<0.10		mg/L	0.10	07/05/2002
PCB'S - (OIL)							
PCB-1016	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1221	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1232	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1242	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1246	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1254	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCB-1260	1152	1640	<2.0		ug/g	2.0	06/17/2002

QUALITY CONTROL REPORT BLANKS

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Quantitation Limit	Date Analyzed
PCE-1268	1152	1640	<2.0		ug/g	2.0	06/17/2002
PCE's - Total	1152	1640	<2.0		ug/g	2.0	06/17/2002
Tetrachlorometaxylene (Surr.)	1152	1640	76		%		06/17/2002
Decachlorobiphenyl (Surr.)	1152	1640	41		%		06/17/2002
PCE'S - (OIL)							
PCB-1016	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1221	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1232	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1242	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1248	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1254	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1260	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCB-1268	1152	1625	<2.0		ug/g	2.0	05/14/2002
PCE's - Total	1152	1625	<2.0		ug/g	2.0	05/14/2002
Tetrachlorometaxylene (Surr.)	1152	1625	76		%		05/14/2002
Decachlorobiphenyl (Surr.)	1152	1625	41		%		05/14/2002
PCE'S - (OIL)							
PCB-1016	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1221	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1232	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1242	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1248	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1254	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1260	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCB-1268	1152	1643	<2.0		ug/g	2.0	06/26/2002
PCE's - Total	1152	1643	<2.0		ug/g	2.0	06/26/2002
Tetrachlorometaxylene (Surr.)	1152	1643	96		%		06/26/2002
Decachlorobiphenyl (Surr.)	1152	1643	58		%		06/26/2002

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Arenable		686	0.190	mg/kg	0.192	101		06/28/2002
Cyanide, Total		568	0.190	mg/kg	0.192	101		06/28/2002
ICP Metals-Solid		1537	1.0	mg/L	1.0	100		07/06/2002
Chromium, ICP	1211	2031	1.0	mg/L	0.9964	100		07/06/2002
Chromium, ICP		2036	1.0	mg/L	0.9964	100		07/06/2002
ICP TCLP METALS								
TCLP Chromium (ICP)	1779	1645	1.00	mg/L	1.00	100		07/01/2002
TCLP Chromium (ICP)	1781	1646	1.00	mg/L	0.9714	97		07/02/2002
TCLP Chromium (ICP)	1782	1647	1.00	mg/L	0.9877	99		07/02/2002
TCLP Chromium (ICP)	1780	1650	1.00	mg/L	1.02	102		07/03/2002
TCLP Chromium (ICP)	1784	1651	1.00	mg/L	1.04	104		07/03/2002
TCLP Chromium (ICP)	1783	1652	1.00	mg/L	0.9830	98		07/05/2002
TCLP Lead (ICP)	1779	1647	2.00	mg/L	1.96	98		07/01/2002
TCLP Lead (ICP)		1648	2.00	mg/L	1.95	98		07/02/2002
TCLP Lead (ICP)	1782	1649	2.00	mg/L	1.95	98		07/02/2002
TCLP Lead (ICP)		1649	2.00	mg/L	1.95	98		07/02/2002
TCLP Lead (ICP)	1780	1652	2.00	mg/L	2.08	104		07/03/2002
TCLP Lead (ICP)	1784	1653	2.00	mg/L	2.03	102		07/03/2002
TCLP Lead (ICP)		1653	2.00	mg/L	2.03	102		07/03/2002
TCLP Lead (ICP)		1654	2.00	mg/L	1.94	97		07/05/2002
PCB'S - (OIL)								
PCB-1242	1152	1640	4.1	ug/g	3.0	73		06/17/2002
Tetrachloronitaxylene (Surr.)	1152	1640	105	%	102	97		06/17/2002
Decachlorobiphenyl (Surr.)	1152	1640	105	%	56	53		06/17/2002

QUALITY CONTROL REPORT MATRIX SPIKE

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07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
ICF TCLF METALS									
TCLP Chromium (ICP)	1779	1645	1.00	mg/L	<0.020	0.9704	97		07/01/2002
TCLP Chromium (ICP)	1779	1645	1.00	mg/L	<0.020	0.9373	94		07/01/2002
TCLP Chromium (ICP)	1779	1645	1.00	mg/L	<0.020	0.8793	88		07/01/2002
TCLP Chromium (ICP)	1781	1646	1.00	mg/L	<0.020	0.9821	98		07/02/2002
TCLP Chromium (ICP)	1782	1647	1.00	mg/L	<0.020	0.9150	92		07/02/2002
TCLP Chromium (ICP)	1782	1647	1.00	mg/L	26	27.5	150	N, *	07/03/2002
TCLP Chromium (ICP)	1780	1650	1.00	mg/L	0.615	1.63	102		07/03/2002
TCLP Chromium (ICP)	1780	1650	1.00	mg/L	<0.040	0.9958	100		07/03/2002
TCLP Chromium (ICP)	1784	1651	1.00	mg/L	<0.020	0.9964	100		07/03/2002
TCLP Chromium (ICP)	1784	1651	1.00	mg/L	<0.020	1.02	102		07/03/2002
TCLP Chromium (ICP)	1783	1652	1.00	mg/L	<0.020	1.04	104		07/05/2002
TCLP Lead (ICP)		1647	2.00	mg/L	<0.10	1.74	87		07/01/2002
TCLP Lead (ICP)	1779	1647	2.00	mg/L	<0.10	1.88	94		07/01/2002
TCLP Lead (ICP)	1779	1647	2.00	mg/L	<0.10	1.65	82		07/01/2002
TCLP Lead (ICP)		1648	2.00	mg/L	<0.10	1.83	92		07/02/2002
TCLP Lead (ICP)	1782	1649	1.92	mg/L	<0.10	1.81	94		07/02/2002
TCLP Lead (ICP)	1782	1649	2.00	mg/L	<0.30	1.84	92		07/02/2002
TCLP Lead (ICP)		1652	2.00	mg/L	<0.20	1.91	96		07/03/2002
TCLP Lead (ICP)	1780	1652	2.00	mg/L	<0.30	1.84	92		07/03/2002
TCLP Lead (ICP)		1653	2.00	mg/L	<0.10	1.86	93		07/03/2002
TCLP Lead (ICP)	1784	1653	2.00	mg/L	<0.10	1.89	94		07/03/2002
TCLP Lead (ICP)	1784	1653	2.00	mg/L	4.4	6.93	126	N	07/03/2002
TCLP Lead (ICP)		1654	2.00	mg/L	<0.40	1.72	86		07/05/2002

* - Sample concentration is greater than four times the spike concentration
N - Spike recovery for this analyte is out of control

QUALITY CONTROL REPORT DUPLICATES

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed
Solid pH Measured in Water		1348	7.5	8.0	units	6.5		06/28/2002
Solid pH Measured in Water		1348	8.2	8.2	units	0.0		06/28/2002
Solid pH Measured in Water		1349	12.3	12.2	units	0.8		06/28/2002

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722
Scott Killip

07/17/2002

Job Number: 02.07542

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD		Percent	MS/MSD
	Batch	Batch	Spike					MSD	Spike		
	Number	Number	Result	Result	Amount		Recovery	Result	Amount	Units	RPD
Chromium, hexavalent		96	<3.0	<3.0	9.98	mg/kg	0	<3.0	9.98	mg/kg	0
Chromium, hexavalent		97	6.77	<3.0	9.54	mg/kg	71.0	<3.0	9.54	mg/kg	0
Cyanide, Total		568	9.19	<1.0	9.82	mg/kg	93.6	9.29	9.93	mg/kg	1.1
Chromium, ICP	1211	2036	626	710	98.5	mg/kg	0.0	664	96.9	mg/kg	5.9
PCP-3 - (OIL)											
PCP-1242	1152	1640	3.0	<2.0	3.1	ug/g	96.8	3.0	3.0	ug/g	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

TestAmerica Job Number: 02.07542

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Seneca

Project: _____

City: _____

Date: 6/22/02 Receiver's Initials SP

Time (if Applicable): _____

Temperature Record

Cooler #1: 3 °C / On Ice
☒ Temp. Blank

Cooler #2: 4 °C / On Ice
☒ Temp. Blank

Cooler #3: _____ °C / On Ice
☐ Temp. Blank

Cooler #4: _____ °C / On Ice
☐ Temp. Blank

Thermometer:

☐ IR-905085

☐ CF07-03-T1

☒ IR-809065

☐ CF07-03-T2

COC Completed Correctly? ☐ Yes ☐ No
(Cite inconsistencies below)

Custody Seals Intact? ☐ Yes ☐ No
(If Applicable)

Cooler Checklist (Check indicates conformance failure)

<input type="checkbox"/>	Received Broken	<input type="checkbox"/>	Improper Container	<input type="checkbox"/>	Temperature*
<input type="checkbox"/>	Improperly Preserved	<input type="checkbox"/>	Missing Sample	<input type="checkbox"/>	Extra Sample
<input type="checkbox"/>	Missing Label	<input type="checkbox"/>	Sample Past Hold Date	<input type="checkbox"/>	Improper Label
<input type="checkbox"/>	Insufficient Sample Volume	<input type="checkbox"/>	Other:		

Client Sample IDs:
Initial/Date: mf 6/24/02

Remarks/Action Taken:

Per Scott H., does need Cr 6.

Couriers

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input checked="" type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

<input type="checkbox"/>	Samples Not Received in a Cooler
<input type="checkbox"/>	Temperature Not Taken
<input type="checkbox"/>	Samples Received Within 6 hrs of sampling

Log-In By:

NF MF EM
OT

*Refer to SOP CF01-01 for Temperature Criteria

C:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt.doc

Company: Seneca

Send Report To: _____

Address: _____

City/State/Zip Code: _____

Telephone Number: _____ Fax: _____

Sampled by: (Print Name) Todd Feldman

(Signature) Todd A Feldman

Your PO #: 157931

Invoice To: _____

TA Quote #: 02-0192

Project Name: Former Electro Finishes

Project Number: 6219801

Project Manager: Scott Killip

Proj. Mgr. Telephone: _____

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative								Matrix					Analyze For:										RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report		
							Ice	HNO ₃ (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H ₂ SO ₄ Plastic (Yellow & White Label)	H ₂ SO ₄ Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify: _____															
B4 @ 7'	6/20	10:15	1	X			X										X		X	X													X		
B4 @ 13'	6/20	10:30	1	X			X										X		X	X													X		
B5 @ 3'	6/20	10:40	1	X			X										X		X	X													X		
B5 @ 8'	6/20	10:45	1	X			X										X		X	X													X		
B5 @ 12'	6/20	10:50	1	X			X										X		X	X													X		
B6 @ 3'	6/20	11:00	1	X			X										X		X	X													X		
B6 @ 7'	6/20	11:10	1	X			X										X		X	X													X		
B6 @ 10'	6/20	11:15	1	X			X										X		X	X													X		
B7 @ 3'	6/20	11:55	1	X			X										X		X	X													X		
B7 @ 6'	6/20	12:00	1	X			X										X		X	X													X		

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.

NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by: <u>Todd A Feldman</u>	Date: <u>6/21/02</u>	Time: <u>8:00 PM</u>	Received by: <u>Dan Gotsch</u>	Date: <u>6/21/02</u>	Time: <u>1230</u>	Relinquished by: <u>Dan Gotsch</u>	Date: <u>6/21/02</u>	Time: <u>1500</u>
Shipped Via: _____			Comments: _____			Shipped Via: _____		
Received for TestAmerica by: <u>Thelene Steccan</u>			Temperature Upon Receipt: <u>500</u>			Laboratory Comments: _____		

Company: Serena
Send Report To: _____
Address: _____
City/State/Zip Code: _____
Telephone Number: _____ Fax: _____
Sampled by: (Print Name) Todd Felderman
(Signature) Todd J. Felderman

Your PO #: 157931
Invoice To: _____
TA Quote #: 02.0192
Project Name: Forman Electro Finishers
Project Number: 6219801
Project Manager: Scott Killip
Proj. Mgr. Telephone: _____

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:										RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by: <u>Todd J. Felderman</u>	Date: <u>6/21/02</u>	Time: <u>5:00</u>	Received by: <u>Dan C. Gentry</u>	Date: <u>6/21/02</u>	Time: <u>1230</u>	Relinquished by: <u>Dan C. Gentry</u>	Date: <u>6/21/02</u>	Time: <u>1500</u>
Shipped Via: _____			Comments: _____			Shipped Via: _____		
Received for TestAmerica by: <u>Melene Tacciani</u>			Temperature Upon Receipt: <u>800</u>			Laboratory Comments: _____		

Company: Seneca Your PO #: 157931
Send Report To: _____ Invoice To: _____
Address: _____ TA Quote #: 02-0192
City/State/Zip Code: _____ Project Name: Former Electro Finishers
Telephone Number: _____ Fax: _____ Project Number: 6219801
Sampled by: (Print Name) Justin Smith Project Manager: Scott Killip
(Signature) Justin Smith Proj. Mgr. Telephone: _____

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
UST Content - separate

Relinquished by: <i>Justin Smith</i>	Date <i>6-21-02</i>	Time <i>3⁰⁰</i>	Received by: <i>Dan Gandy</i>	Date <i>6/21/02</i>	Time <i>1230</i>	Relinquished by: <i>Dan Gandy</i>	Date <i>6/21/02</i>	Time <i>1500</i>
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: <i>M. L. Pacciani</i>			Date <i>6/23/02</i>			Time <i>800</i>		
Temperature Upon Receipt:			Laboratory Comments:					

ANALYTICAL AND QUALITY CONTROL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/17/2002

Job Number: 02.07542

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
682061	B-1 3' Project #6219801	06/20/2002	06/22/2002
682062	B-1 7' Project #6219801	06/20/2002	06/22/2002
682063	B-1 13' Project #6219801	06/20/2002	06/22/2002
682064	B-2 3' Project #6219801	06/20/2002	06/22/2002
682065	B-2 7' Project #6219801	06/20/2002	06/22/2002
682066	B-2 13' Project #6219801	06/20/2002	06/22/2002
682067	B-3 3' Project #6219801	06/20/2002	06/22/2002
682068	B-3 8' Project #6219801	06/20/2002	06/22/2002
682069	B-3 12' Project #6219801	06/20/2002	06/22/2002
682070	B-4 3' Project #6219801	06/20/2002	06/22/2002
682071	B-4 7' Project #6219801	06/20/2002	06/22/2002
682072	B-4 13' Project #6219801	06/20/2002	06/22/2002
682073	B-5 3' Project #6219801	06/20/2002	06/22/2002
682074	B-5 8' Project #6219801	06/20/2002	06/22/2002
682075	B-5 12' Project #6219801	06/20/2002	06/22/2002
682076	B-6 3' Project #6219801	06/20/2002	06/22/2002
682077	B-6 7' Project #6219801	06/20/2002	06/22/2002
682078	B-6 10' Project #6219801	06/20/2002	06/22/2002
682079	B-7 3' Project #6219801	06/20/2002	06/22/2002
682080	B-7 6' Project #6219801	06/20/2002	06/22/2002

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Kristin Clay
Project Manager

APPENDIX C – TABULATED SOIL ANALYSIS RESULTS AND MAPS

TABLE 1
PREVIOUS SOIL AND MORTAR SAMPLE ANALYSIS RESULTS

Sample	CR Conc. (Total)	CR Conc. (TCLP)	Conc. (total CR +6)
FS1	6700	NA	42
FS2	5500	0.26	46
FS3	1300	1.2	0.83
FS4	29000	120	2200
FC1	52000	2000	37000
FC2	7100	260	4700
FC3	4800	180	2900
FC4	31000	1600	17000
Bldg A**	17200		

All values in parts per million (PPM)

GW leach values apply to total CR/TCLP

GW leach value sam for residential vs non-residential

Non-res. soil COs for total CR and CR+6 are identical

*TCLP

**Collected by CDE, location not defined

Zadrozny sump water = 302.239 mg/L (IEPA 3/9/00)

Zadrozny sump water = 13.0 mg/L (TN&N 1/25/01)

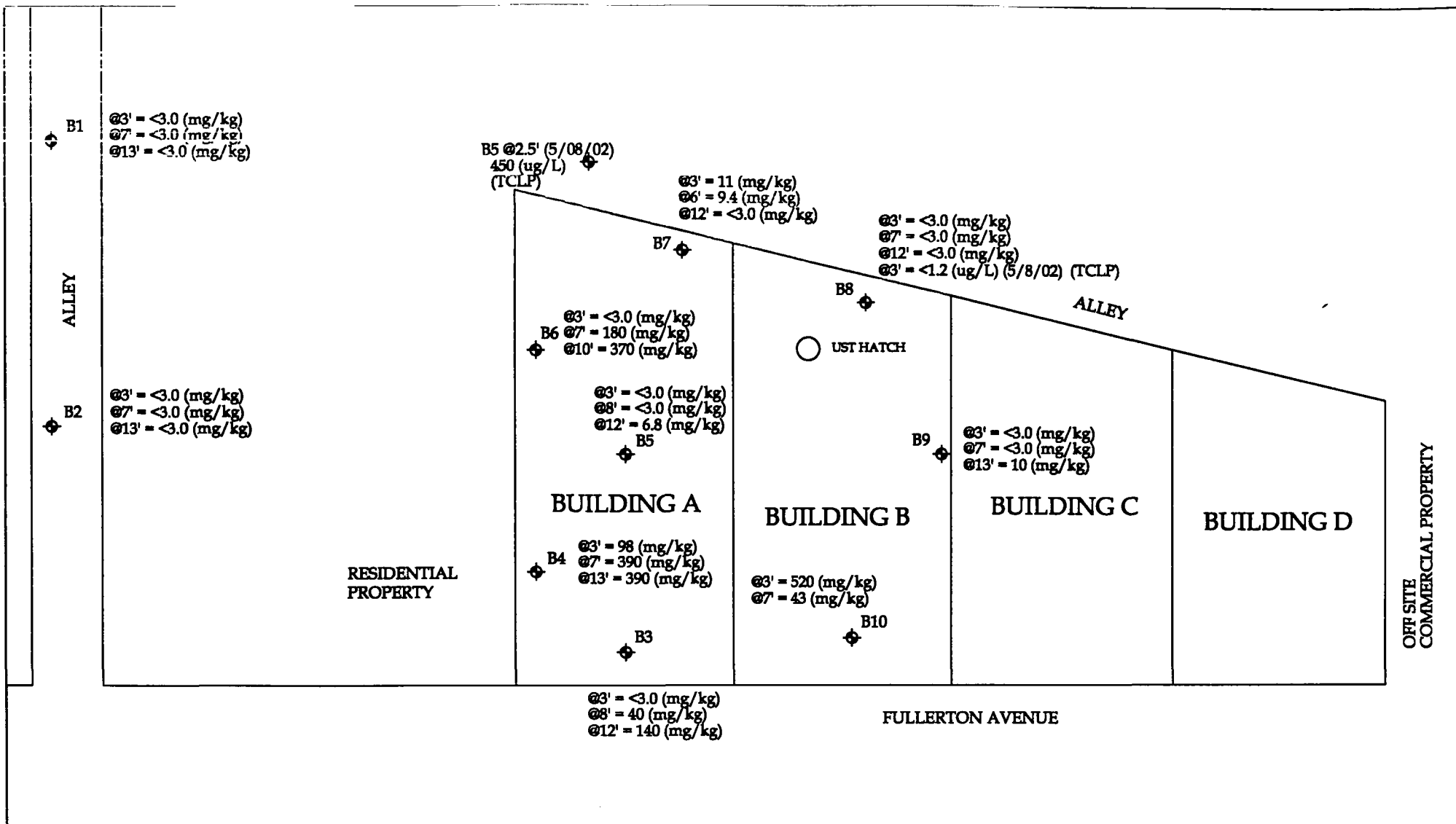
MWRDGC discharge =25 mg/L

TACO REMEDIATION OBJECTIVES

NON-RESIDENTIAL				RESIDENTIAL			
INDUST./COMMERCIAL		CONST. WORKER					
Ingestion CO	Inhalation CO	Ingestion CO	Inhalation CO	Ingestion CO	Inhalation CO	GW Leach I (TCLP)	GW Leach II (TCLP)
6100	420	4100	690	230	270	0.1	1

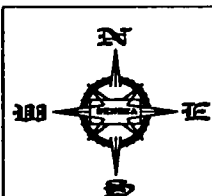
SAMPLE DISCRIPTION

FS1 - Soil debris in northwest yard
 FS2 - Soil debris in northwest yard
 FS3 - Soil from catch basin in northwest yard
 FS4 - Soil above UST hatch
 FC1 - Mortar in southwest quarter of Building A
 FC2 - Mortar of doorway from Building A to shed
 FC3 - Mortar of east interior wall of Building A
 FC4 - Mortar of exterior south wall of Building A

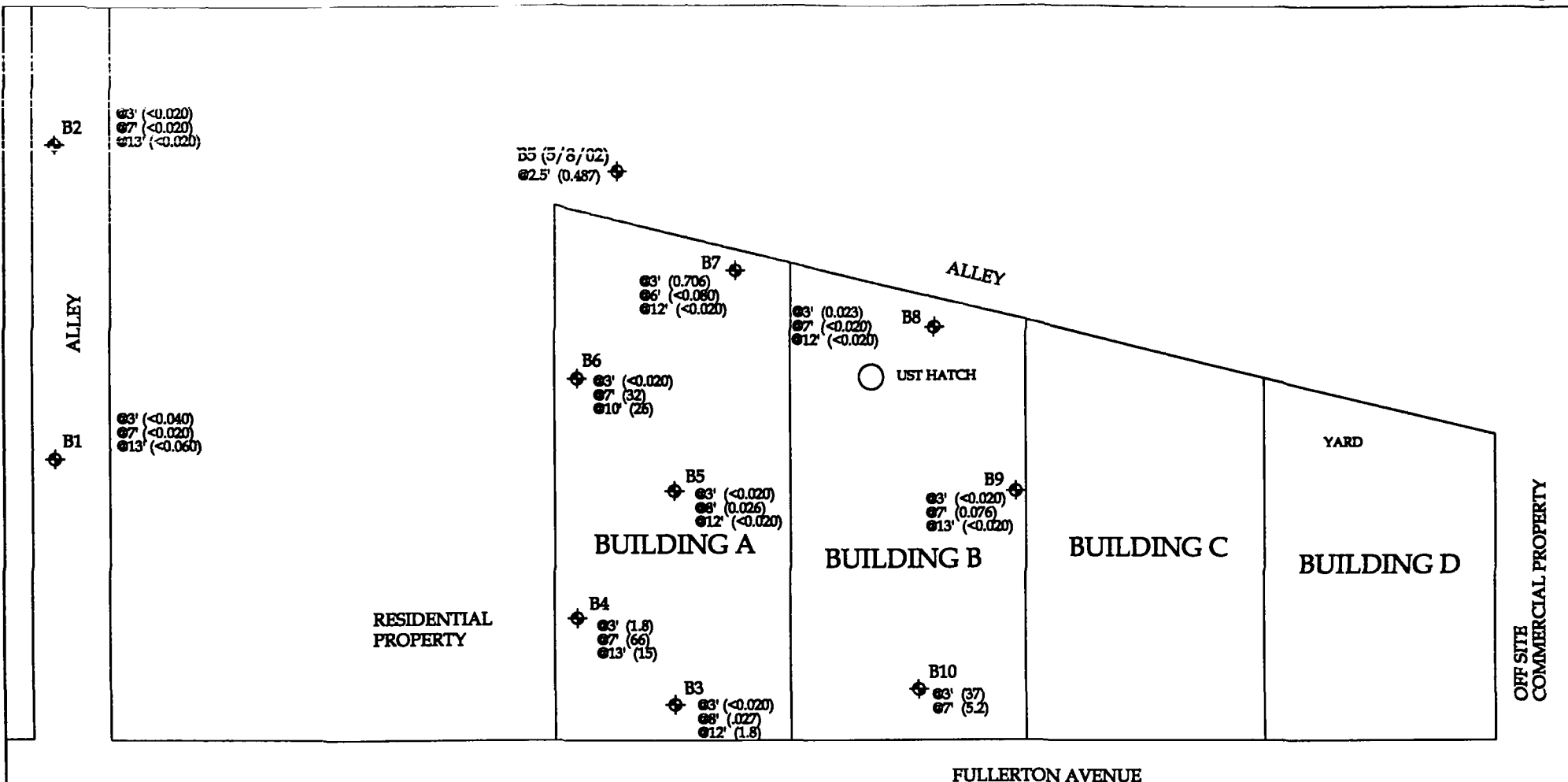


ALL DATA FROM SAMPLES TAKEN ON 6/20/02
 UNLESS NOTED OTHERWISE

◆ SOIL BORING LOCATIONS

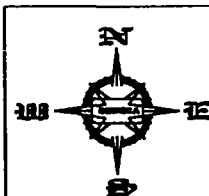


FILE NAME:	FEF	 Seneca Environmental Services	REVISED:
PROJECT NO:	6219801		DATE: 10/16/02
SITE:	FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS	LUST#: N/A	REVIEWED BY: SK
SOIL ANALYSIS RESULTS - CHROMIUM, hexavalent		SCALE: 1" = 30'	DRAWN BY: RLH



SOIL ANALYSIS RESULTS
VALUES FOR TCLP RESULTS ARE mg/l

SOIL BORING LOCATIONS
W/TOTAL (TCLP) CR RESULTS



FILE NAME: FEF
PROJECT NO: 6219801



Seneca
Environmental Services

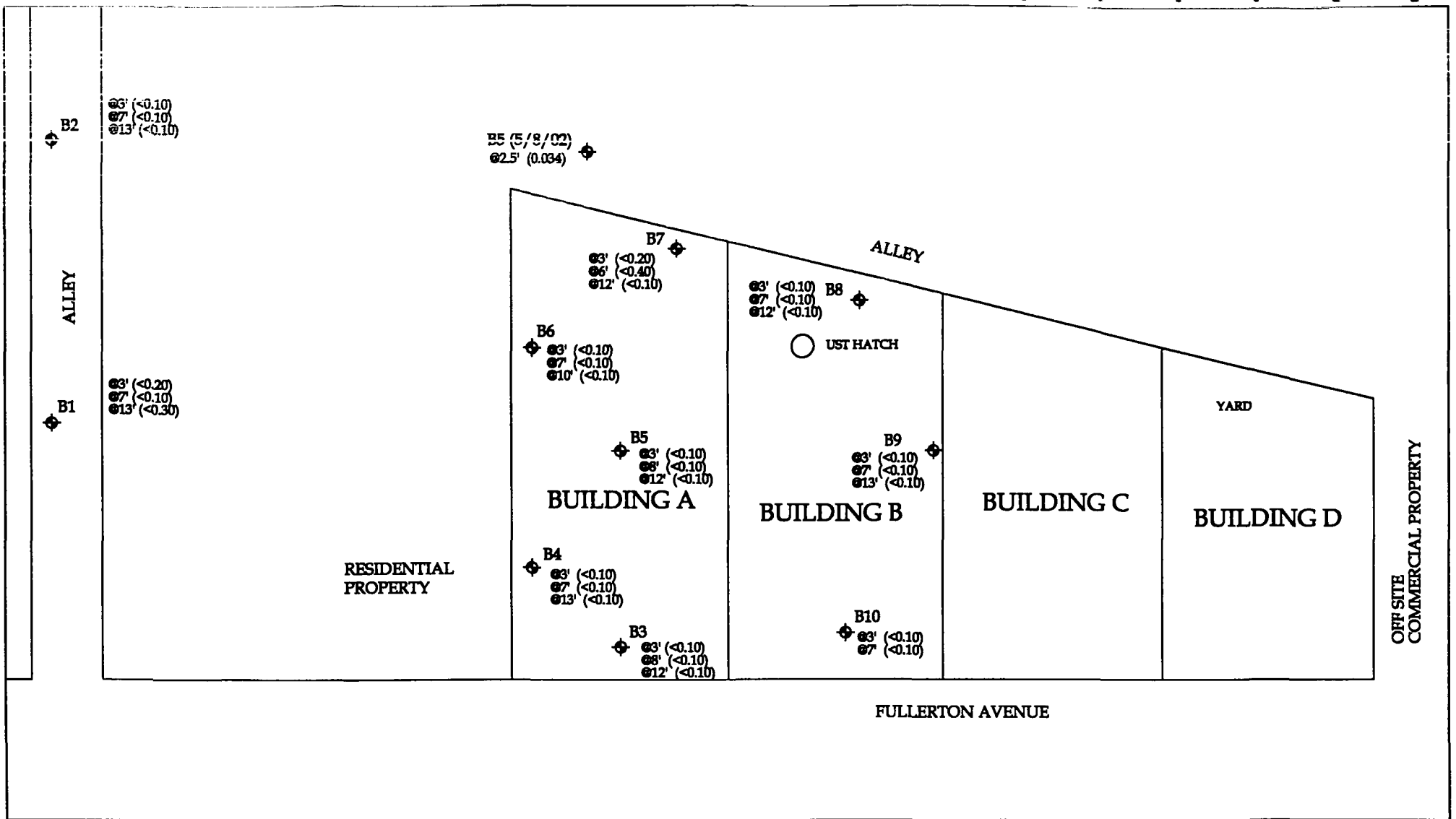
REVISED: 10/16/02

DATE: 08/12/02

SITE: FORMER ELECTRO FINISHERS
321 WEST FULLERTON AVENUE
CHICAGO, ILLINOIS
TCLP CHROMIUM TOTAL LEVELS

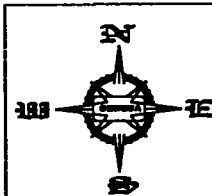
LUST#: N/A
SCALE: 1" = 30'


REVIEWED BY: SK
DRAWN BY: RLH



SOIL ANALYSIS RESULTS
VALUES FOR TCLP RESULTS ARE mg/l

◆ SOIL BORING LOCATIONS
W/TOTAL TCLP LEAD RESULTS



FILE NAME:	FEF		Seneca <i>Environmental Services</i>	REVISED:	10/16/02	
PROJECT NO:	6219801			DATE:	08/16/02	
SITE:	FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS TCLP LEAD TOTAL LEVELS		LUST#:	N/A	REVIEWED BY:	SK
			SCALE:	1" = 30'	DRAWN BY:	RLH

APPENDIX D – SOIL BORING LOGS

ULST Incident No.:		Boring Number: B1/TMW1		Page: 1 of 1	
Site Name: Former Electro Finishers		Boring Location:		Date: Start 6/20/02 7:30 A.M.	
Address 1562 West Fullerton, Chicago Illinois				Finish 6/20/02 8:30 A.M.	


Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="display: flex; justify-content: space-between;"> △-----□ </div> <div style="display: flex; justify-content: space-between;"> P.L.% L.L.% </div> <div style="display: flex; justify-content: space-between;"> 0 20 40 60 </div> <div style="display: flex; justify-content: space-between;"> ----- </div> Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-1') Gravel				
			2	(1-3') Black Gravelly Clay, some staining				
	SS		3	(3-4') Brown Gravelly Clay				(3-13') Screen
			4	(4-7') Brown Silty Clay				
			5					
			6					
	SS		7	(7-8') Black Silty Clay ▼				
			8	(8-11') Gravel				
			9					
			10					
			11	(11-13') Brown silty Clay				
			12					
	SS		13					0 Boring terminated at 13 feet

Groundwater Data	Auger Depth: 13 feetX1"	Rig Type: Geo Probe		Illinois Environmental Protection Agency
▼ Depth While Drilling	Rotary Depth:			
▽ Depth After Drilling	Driller: Rock-Soil	Geologist: Todd Felderman		

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUS Incident No.:				Boring Number: B2/TMW2				Page: 1 of 1			
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/02 8:45 A.M.			
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/02 9:30 A.M.			

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content Δ-----□ P.L.% L.L.% 0 20 40 60 ----- Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-1') Gravel				
			2	(1-3') Black Silty Gravel				
	SS		3	(3-5') Brown Silty Gravel				0 (3-13') Screen
			4					
			5	(5-9') Black Gravelly Silt				
			6					
	SS		7					
			8					
			9	(9-13') Brown Silty Clay				
			10					
			11					
			12					
	SS		13					0 Boring terminated at 13 feet

Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling _____	Auger Depth: <u>13 feetX1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>	 Illinois Environmental Protection Agency
--	--	--	--

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:				Boring Number: B3/MW3				Page: 1 of 1	
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/02 9:30 A.M.	
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/02 10:00 A.M.	

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="font-size: small;"> P.L.% L.L.% 0 20 40 60 Scale: _____ </div>	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-2') Gravel				0
			2	(2-4') Brown Silty Clay				0
	SS		3					0 (3-13') Screen
			4	(4-6') Black Gavel				0
			5					0
	SS		6	(6-10') Brown Silty Clay				0
			7					0
			8	▼				0
			9					0
			10	(10-13') Brown Silty Clay				0
			11					0
			12					0
	SS		13					0 Boring terminated at 13 feet Well set at 13 feet

Groundwater Data ▼ Depth While Drilling ▽ Depth After Drilling	Auger Depth: <u>13 feet X 1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>	 Illinois Environmental Protection Agency
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The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:				Boring Number: B4/MW4				Page: 1 of 1			
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/02 10:00 A.M.			
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/02 11:00 A.M.			

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="font-size: small;"> P.L.% L.L.% 0 20 40 60 Scale: _____ </div>	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-1') Gravel				
			2	(1-3') Black Bavelly Sand, trace of Cr on gravel				
	SS		3	(3-4') Black Sand				0 (3-13') Screen
			4	(4-6') Gravel				
			5					
	SS		6	(6-7') Brown Silty Clay				
			7	(7-10') Brown Silty Clay				
			8	▼				
			9					
			10	(10-13') Brown Silty Clay				
			11					
			12					
	SS		13					0 Boring terminated at 13 feet Well set at 13 feet

Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling _____	Auger Depth: <u>13 feetX1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>	 Illinois Environmental Protection Agency
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The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:				Boring Number: B5/MW5				Page: 1 of 1			
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/02 11:00 A.M.			
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/02 11:30 A.M.			


Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="font-size: small;"> P.L.% L.L.% 0 20 40 60 Scale: _____ </div>	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-6') Black Sand/ Gravel Fill				
			2					
	SS		3					0 (3-13') Screen
			4					
			5					
			6	(6-10') Brown Silty Clay				
			7					
	SS		8	▼				
			9					
			10	(10-13') Brown Silty Clay, trac of gravel at 10 foot				
			11					
	SS		12					
			13					0 Boring terminated at 13 feet Well set at 13 feet

Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling _____	Auger Depth: <u>13 feetX1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>	 Illinois Environmental Protection Agency
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The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:		Boring Number: B6/MW6		Page: 1 of 1
Site Name: Former Electro Finishers		Boring Location:		Date: Start 6/20/2002 12:00 P.M.
Address: 1662 West Fullerton, Chicago Illinois				Finish 6/20/2002 12:30 P.M.


Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content △ _____ □ _____ P.L.% L.L.% 0 20 40 60 Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-4') Black Sand/ Gravel Fill			0	
			2				0	
	SS		3				0	(3-11') Screen
			4	(4-7') Black Gravel/ Sand			0	
			5				0	
			6				0	
	SS		7	(7-11') Black Gravel/ Sand			0	
			8				0	
			9				0	
			10				0	
	SS		11				0	Boring terminated at 11 feet Well set at 11 feet

Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling	Auger Depth: 11 feetX1"	Rig Type: Geo Probe	 Illinois Environmental Protection Agency
	Rotary Depth: _____ Driller: Rock-Soil	Geologist: Todd Felderman	

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LIST Incident No.:				Boring Number: B7/MW7				Page: 1 of 1	
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/2002 12:30 P.M.	
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/2002 1:00 P.M.	

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content Δ _____ □ P.L.% L.L.% 0 20 40 60 Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-1') Gravel				
			2	(1-2') Bown Clayey Gravel				
			3	(2-4') Gravel/ Sand				
SS			4	(4-6') Grey Silty Clay				(3-13') Screen
			5					
SS			6	(6-7') Bronw silty Clay ▼				
			7	(7-8') Black Gravel				
			8	(8-13') Brown Silty Clay				
			9					
			10					
			11					
SS			12					
			13					0 Boring terminated at 13 feet Well set at 13 feet

Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling _____	Auger Depth: 13 feetX1" Rotary Depth: _____ Driller: Rock-Soil	Rig Type: Geo Probe Geologist: Todd Felderman	 Illinois Environmental Protection Agency
--	--	--	--

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LST Incident No.				Boring Number: B8/MW8				Page: 1 of 1			
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/2002 1:00 P.M.			
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/2002 1:30 P.M.			

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="display: flex; justify-content: space-between;"> △ _____ □ </div> P.L.% L.L.% 0 20 40 60 ——— ——— ——— ——— ——— Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				
			1	(0-3') Gravel				(0-3') Risor
			2					
SS			3	(3-4') Brown Silty Clay				(3-12') Screen
			4	(4-5') Grey Lime				
			5	(5-8') Black Gravelly Silt				
			6	▼				
			7					
			8	(8-12') Brown Silty Clay				
SS			9					
SS			10					
			11					
			12					18 Boring terminated at 12 feet Well set at 12 feet

Groundwater Data	Auger Depth: 12 feetX1"	Rig Type: Geo Probe		Illinois Environmental Protection Agency
▼ Depth While Drilling	Rotary Depth:			
▽ Depth After Drilling	Driller: Rock-Soil	Geologist: Todd Felderman		

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:				Boring Number: B9/MW9				Page: 1 of 1			
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/02 1:30 P.M.			
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/02 2:00 P.M.			


Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content <div style="font-size: small;"> P.L.% L.L.% 0 20 40 60 Scale: _____ </div>	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-1') Gravel				
			2	(1-4') Black Gravelly Clay				
	SS		3					
			4	(4-9') Black Gravel				(3-13') Screen
			5					
	SS		6	▼				
			7					
			8					
			9	(9-10') Green Silty Clay				21
			10	(10-13') Brown Silty Clay				8
			11					0
			12					0
	SS		13					0 Boring terminated at 13 feet Well set at 13 feet

Groundwater Data ▼ Depth While Drilling ▽ Depth After Drilling	Auger Depth: <u>13 feetX1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>	 Illinois Environmental Protection Agency
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The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

LUST Incident No.:				Boring Number: B10/MW10				Page: 1 of 1	
Site Name: Former Electro Finishers				Boring Location:				Date: Start 6/20/2002 2:00 P.M.	
Address: 1662 West Fullerton, Chicago Illinois								Finish 6/20/2002 2:30 P.M.	

Sample Number	Sample Type	Sample Recovery	Depth (feet)	Detailed Soil and Rock Description	Natural Moisture Content Δ _____ □ _____ P.L.% L.L.% 0 20 40 60 _____ Scale: _____	Penetrometer (TSF)	OVA/PID/FID	Remarks
			0	Concrete				(0-3') Risor
			1	(0-4') Gravel Black				
			2					
	SS		3					0 (3-7') Screen
			4	(4-7') Black Gravel				
			5					
			6					
	SS		7	▼				0 Probe refused at 7 feet

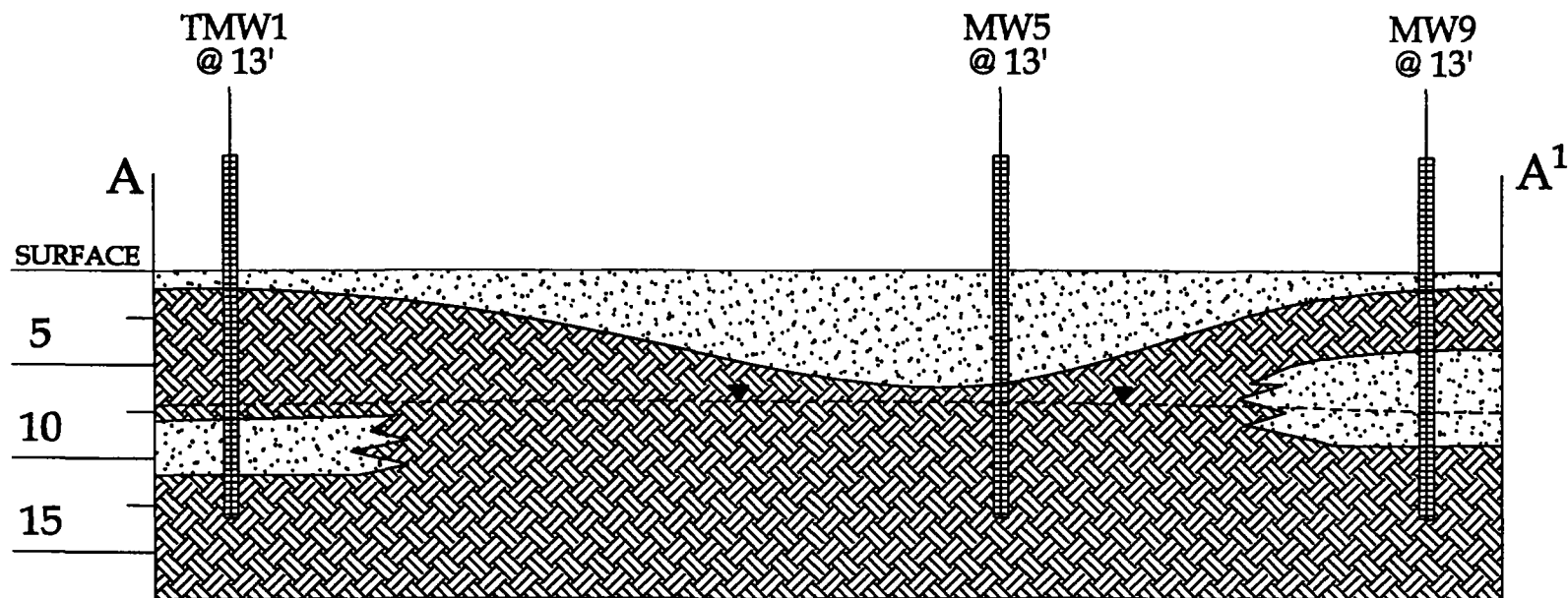
Groundwater Data ▼ Depth While Drilling _____ ▽ Depth After Drilling _____	Auger Depth: <u>7 feetX1"</u> Rotary Depth: _____ Driller: <u>Rock-Soil</u>	Rig Type: <u>Geo Probe</u> Geologist: <u>Todd Felderman</u>		Illinois Environmental Protection Agency
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The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, up to \$50,000.00 and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

APPENDIX E – HYDROGEOLOGIC DATA

TABLE 2**WELL ELEVATION INFORMATION
FORMER ELECTRO FINISHERS**

Well ID	Well Rim	Screen	Top of Screen	Bottom of Screen	DTW	GW
	Elevation	Length (ft)	Elevation	Elevation		Elevation
B1/TMW1						
B2/TMW2						
B3/MW3	590	10	587	577	7.35	582.65
B4/MW4	589.98	10	586.98	576.98	5.92	584.06
B5/MW5	590.01	10	587.01	577.01	5.96	584.05
B6/MW6	590.15	10	587.15	577.15	6.02	584.13
B7/MW7	590.34	10	587.34	577.34	5.67	584.67
B8/MW8	590.79	10	587.79	577.79	5.94	584.85
B9/MW9	590.76	10	587.76	577.76	7.68	583.1
B10/MW10	590.78	10	587.78	577.78	dry	



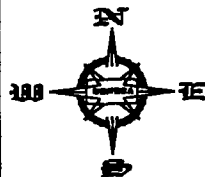
CLAY



GRAVEL

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 30'

▼ DEPTH OF GROUNDWATER



FILE NAME:
FEF

PROJECT NO:
6219801

SITE: FORMER ELECTRO FINISHERS
321 WEST FULLERTON AVENUE
CHICAGO, ILLINOIS
GEOLOGIC CROSS SECTION A - A1



Seneca
Environmental Services

LUST#:
N/A
SCALE:
AS NOTED

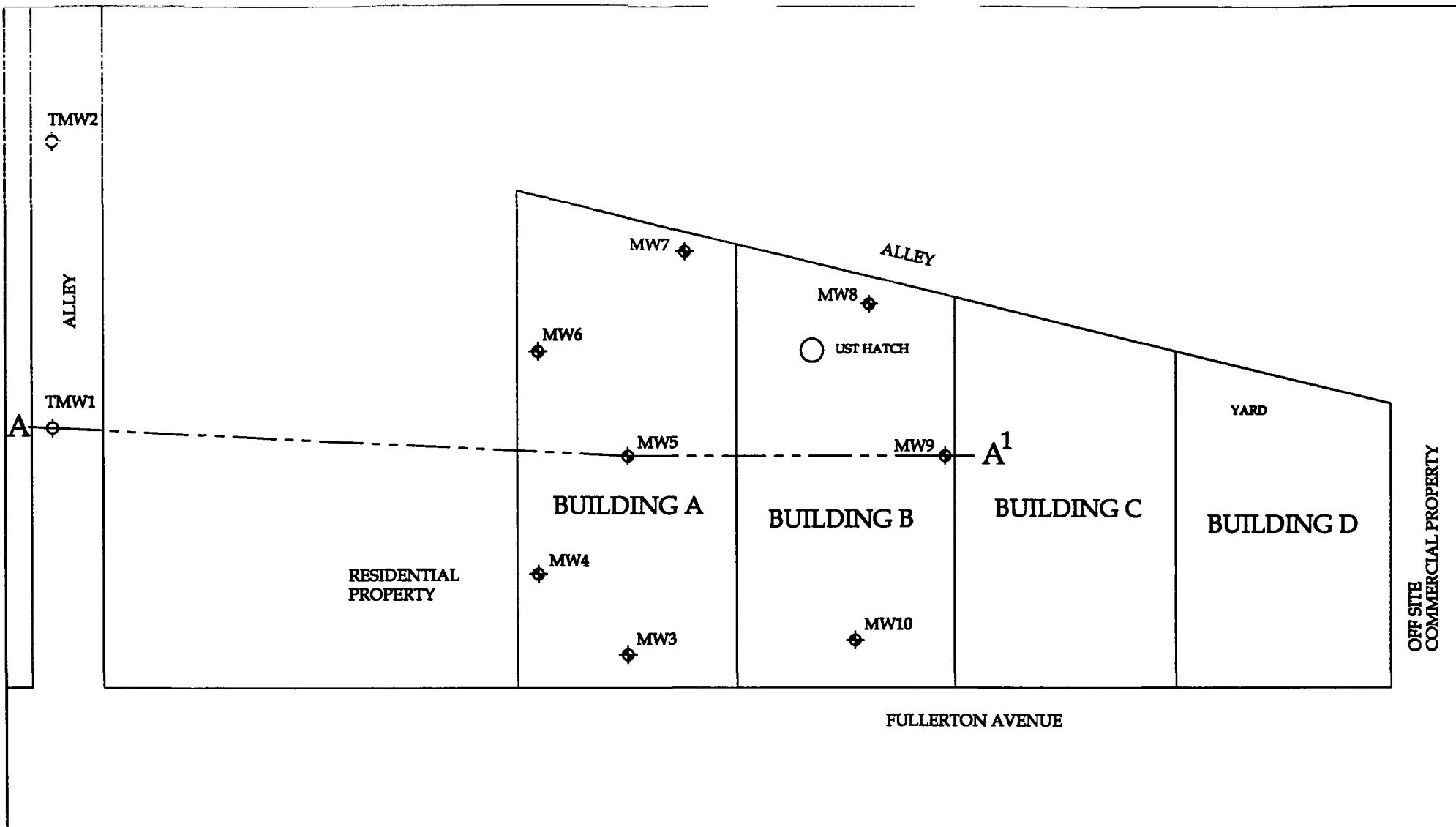
FIGURE 3

REVISED:

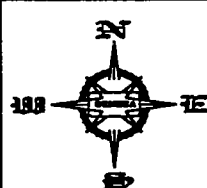
DATE:
09/16/02

REVIEWED BY:
SK

DRAWN BY:
RLH



- ◊ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS



FILE NAME: FEF
PROJECT NO: 6219801

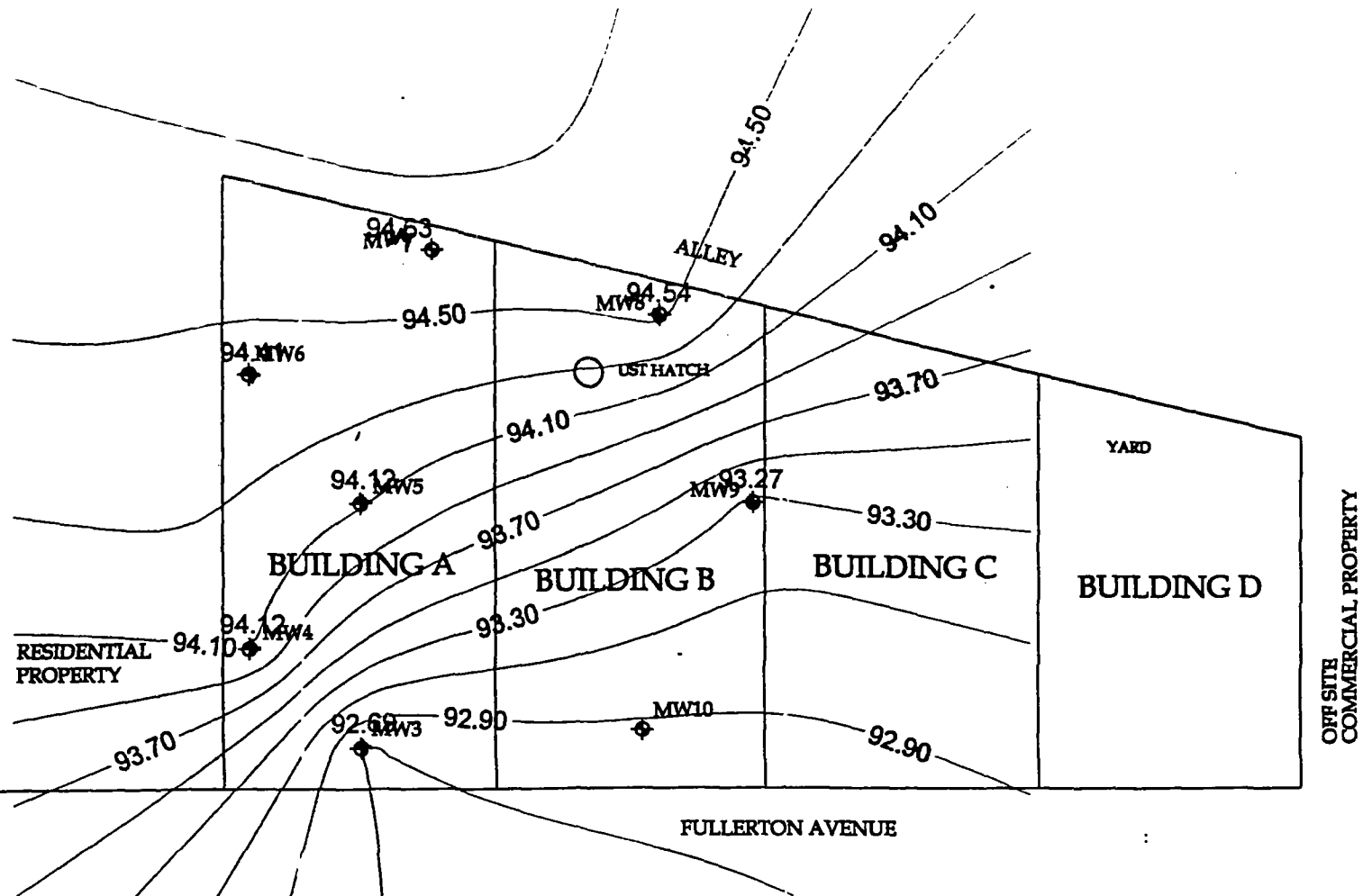


Seneca
Environmental Services

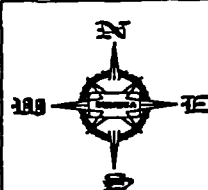
SITE: FORMER ELECTRO FINISHERS
321 WEST FULLERTON AVENUE
CHICAGO, ILLINOIS
LINE OF SECTION

LUST#: N/A
SCALE: 1" = 30'

FIGURE 4	
REVISED: 10/16/02	DATE: 09/16/02
REVIEWED BY: SK	DRAWN BY: RLH



- ◇ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS



FILE NAME: FEF

PROJECT NO: 6219801

SITE: FORMER ELECTRO FINISHERS
321 WEST FULLERTON AVENUE
CHICAGO, ILLINOIS
GROUNDWATER FLOW MAP



Seneca
Environmental Services

LUST#: N/A
SCALE: 1" = 30'

FIGURE 5

REVISED: 08/05/02

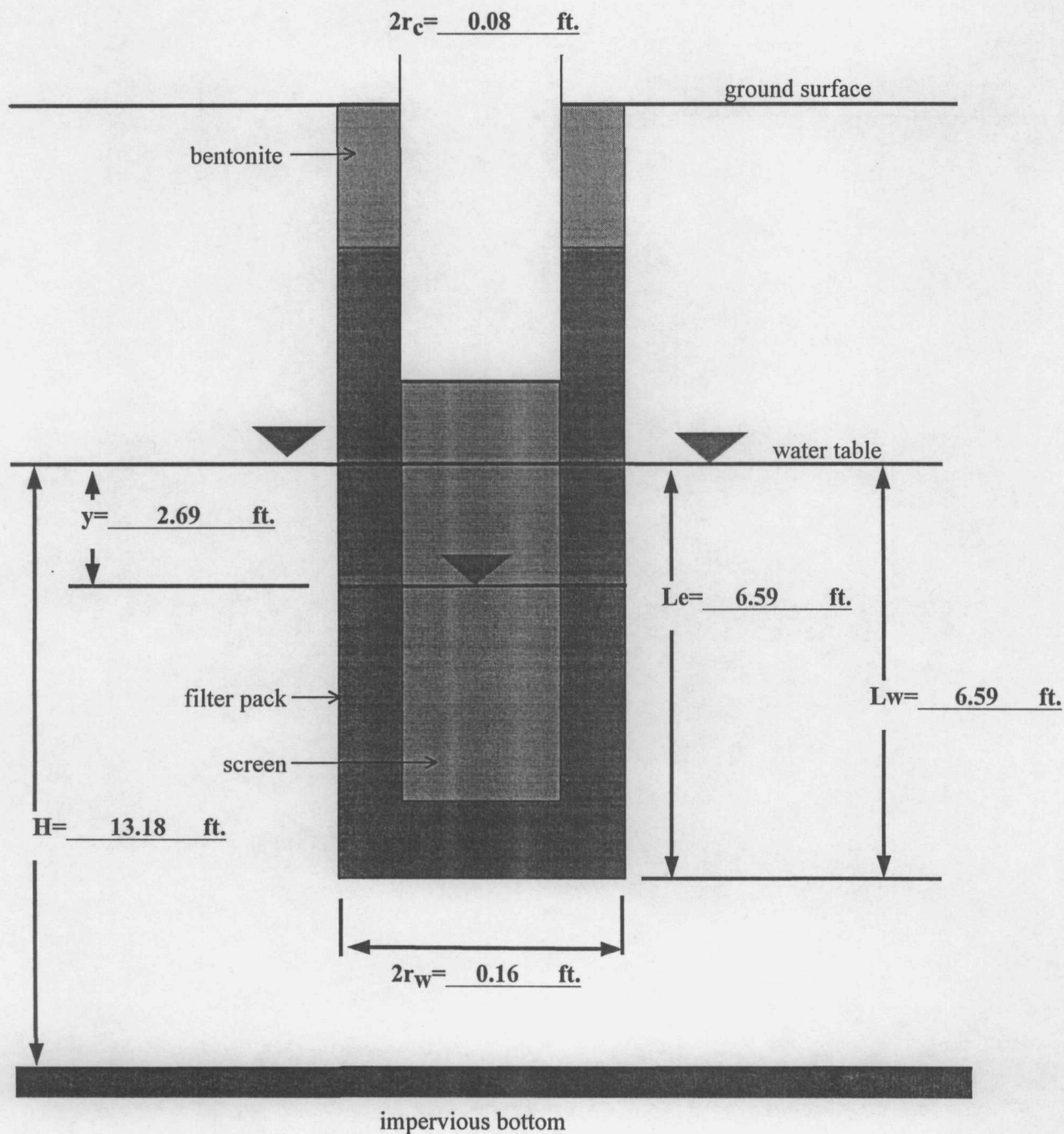
DATE: 02/19/02

REVIEWED BY: SK

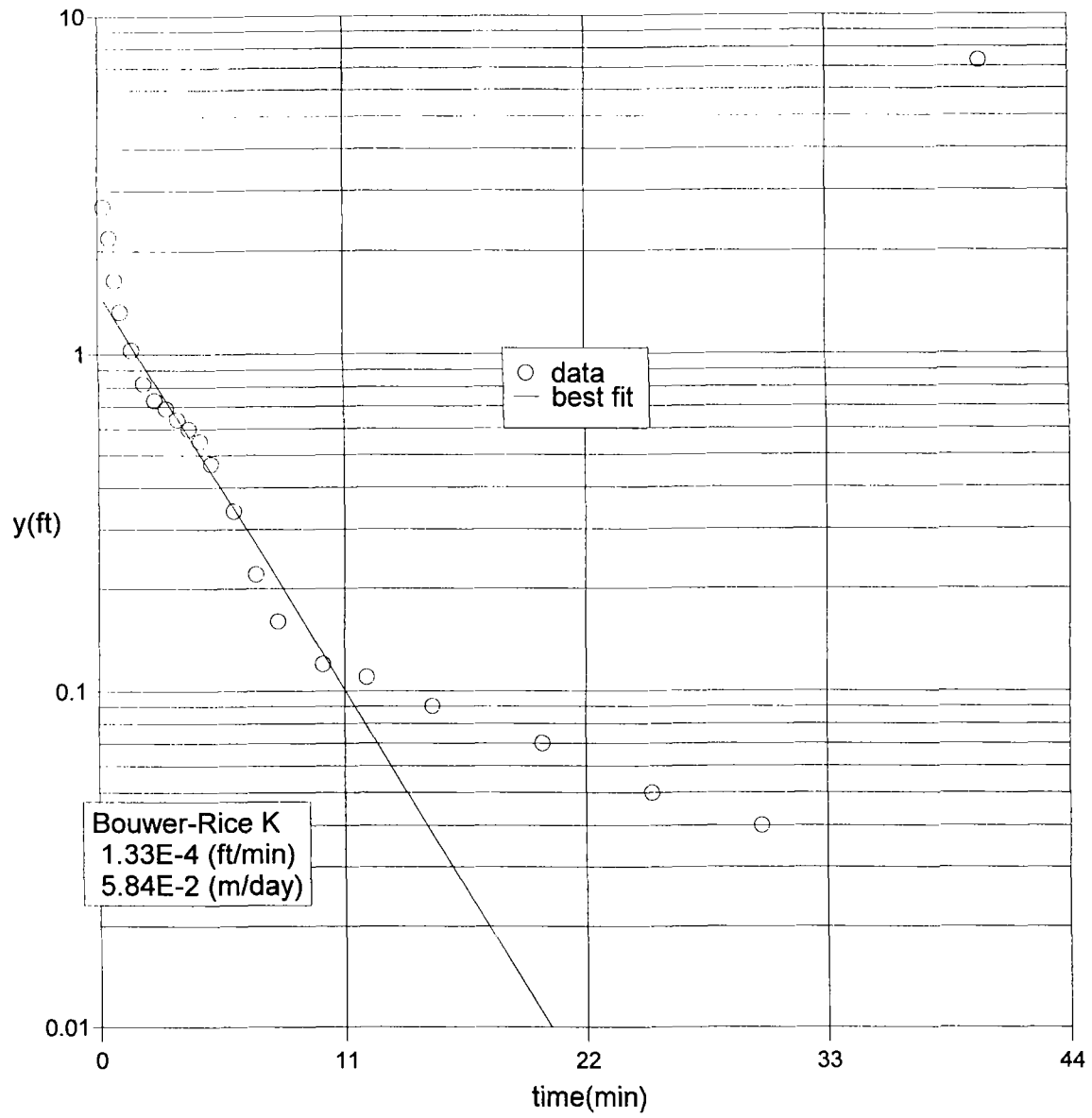
DRAWN BY: RLH

Hydraulic Conductivity Well Diagram

Monitoring Well: MW7
Date Measured: 7/30/02



MW7



Slug Test Results

Title: 7/30/02
Client: FEF
Job Number: 6219801
Well Number: MW7

Hydraulic Conductivity

Bouwer-Rice: 1.33E-4 (ft/min), 5.84E-2 (m/day)

Well Geometry (ft)

H: 13.18
Le: 6.59
Lw: 6.59
rc: .04
rw: .08

drainable filter pack porosity: 0.15
effective radius: 4.82E-2 (ft)

Bouwer Rice Coefficients

Le/rw: 82.375
A: 3.702
B: 0.612
C: 3.646
ln(Re/rw): 3.058

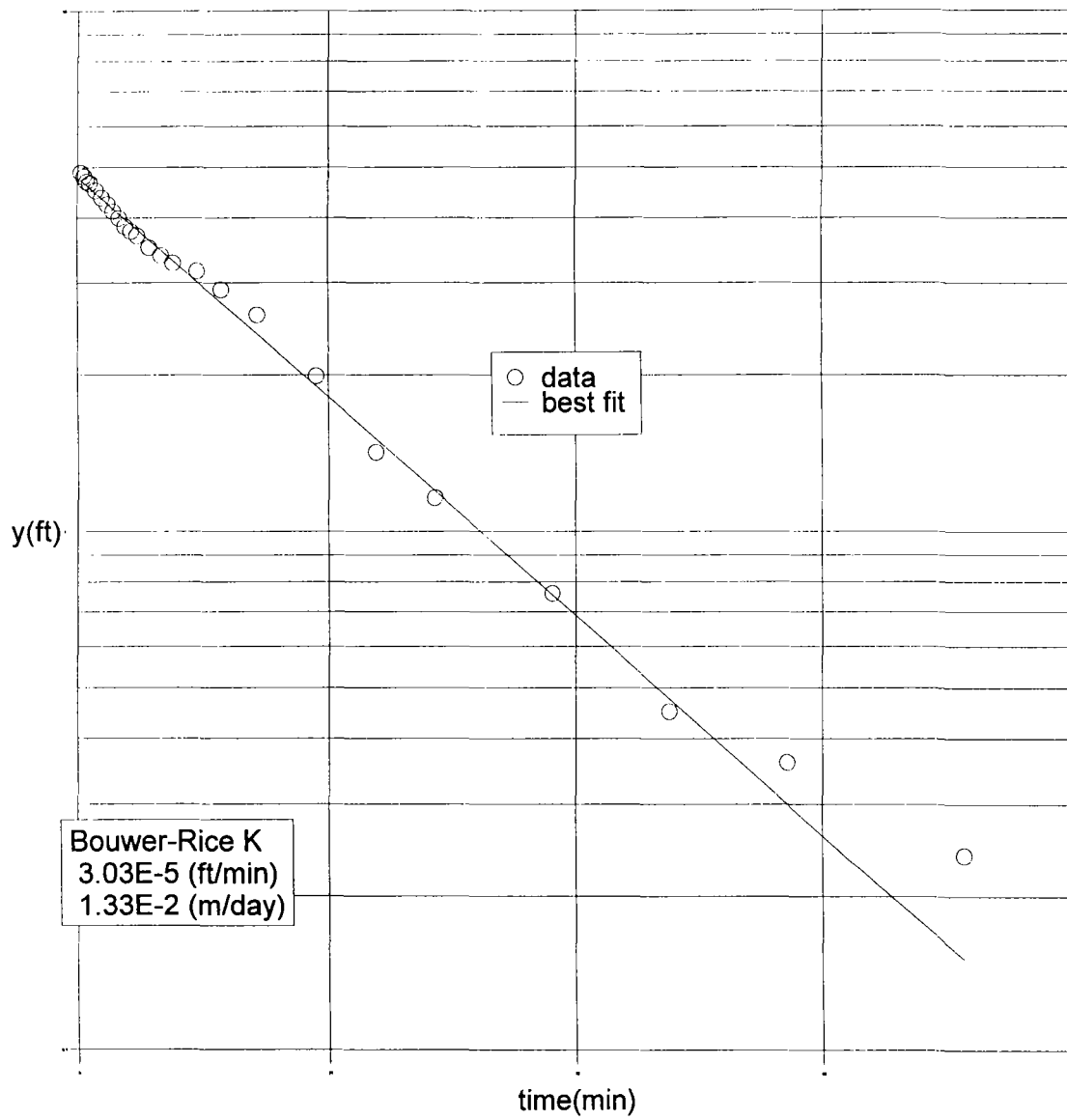
Least Squares Fit

slope: -2.47E-1
intercept: 4.24E-1

Recovery Data and Fit

time(min)	y(ft)	weight	fit(ft)
0.25	2.690	0.0	1.437
0.5	2.180	0.0	1.351
0.75	1.640	1.0	1.270
1.0	1.330	1.0	1.194
1.5	1.030	1.0	1.055
2.0	0.820	1.0	0.932
2.5	0.730	1.0	0.824
3.0	0.690	1.0	0.728
3.5	0.640	1.0	0.643
4.0	0.600	1.0	0.568
4.5	0.550	1.0	0.502
5.0	0.470	1.0	0.444
6.0	0.340	1.0	0.346
7.0	0.220	1.0	0.271
8.0	0.160	1.0	0.211
10.0	0.120	1.0	0.129
12.0	0.110	1.0	0.079
15.0	0.090	0.0	0.037
20.0	0.070	0.0	0.011
25.0	0.050	0.0	0.003
30.0	0.040	0.0	0.001
40.0	7.290	0.0	0.000

MW9



Slug Test Results

Title: 7/30/02
Client: FEF
Job Number: 6219801
Well Number: MW9

Hydraulic Conductivity

Bouwer-Rice: 3.03E-5 (ft/min), 1.33E-2 (m/day)

Well Geometry (ft)

H: 10.04
Le: 5.02
Lw: 5.02
rc: .04
rw: .08

drainable filter pack porosity: 0.15
effective radius: 4.82E-2 (ft)

Bouwer Rice Coefficients

Le/rw: 62.75
A: 3.238
B: 0.514
C: 3.029
ln(Re/rw): 2.847

Least Squares Fit

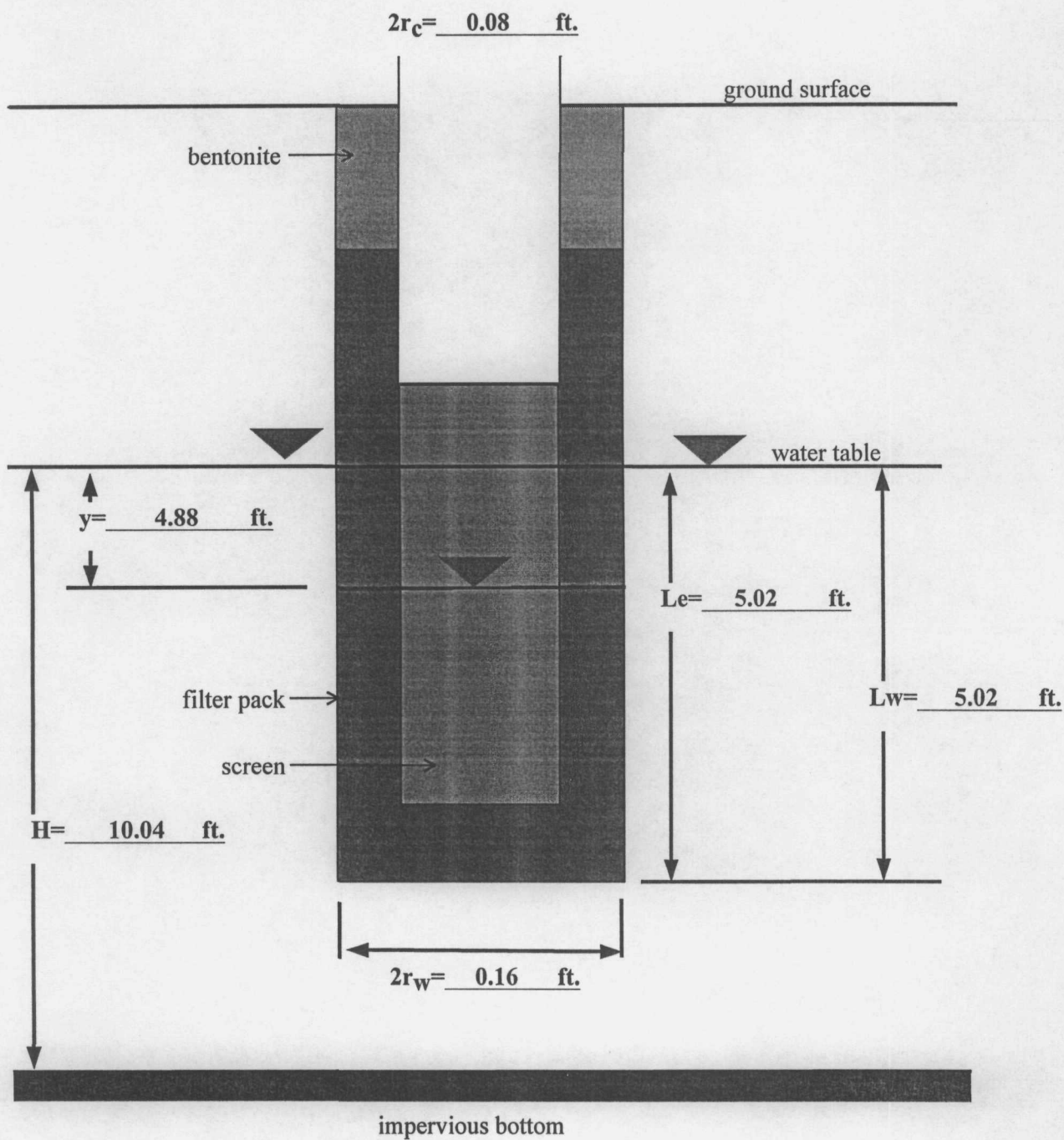
slope: -4.61E-2
intercept: 1.56E+0

Recovery Data and Fit

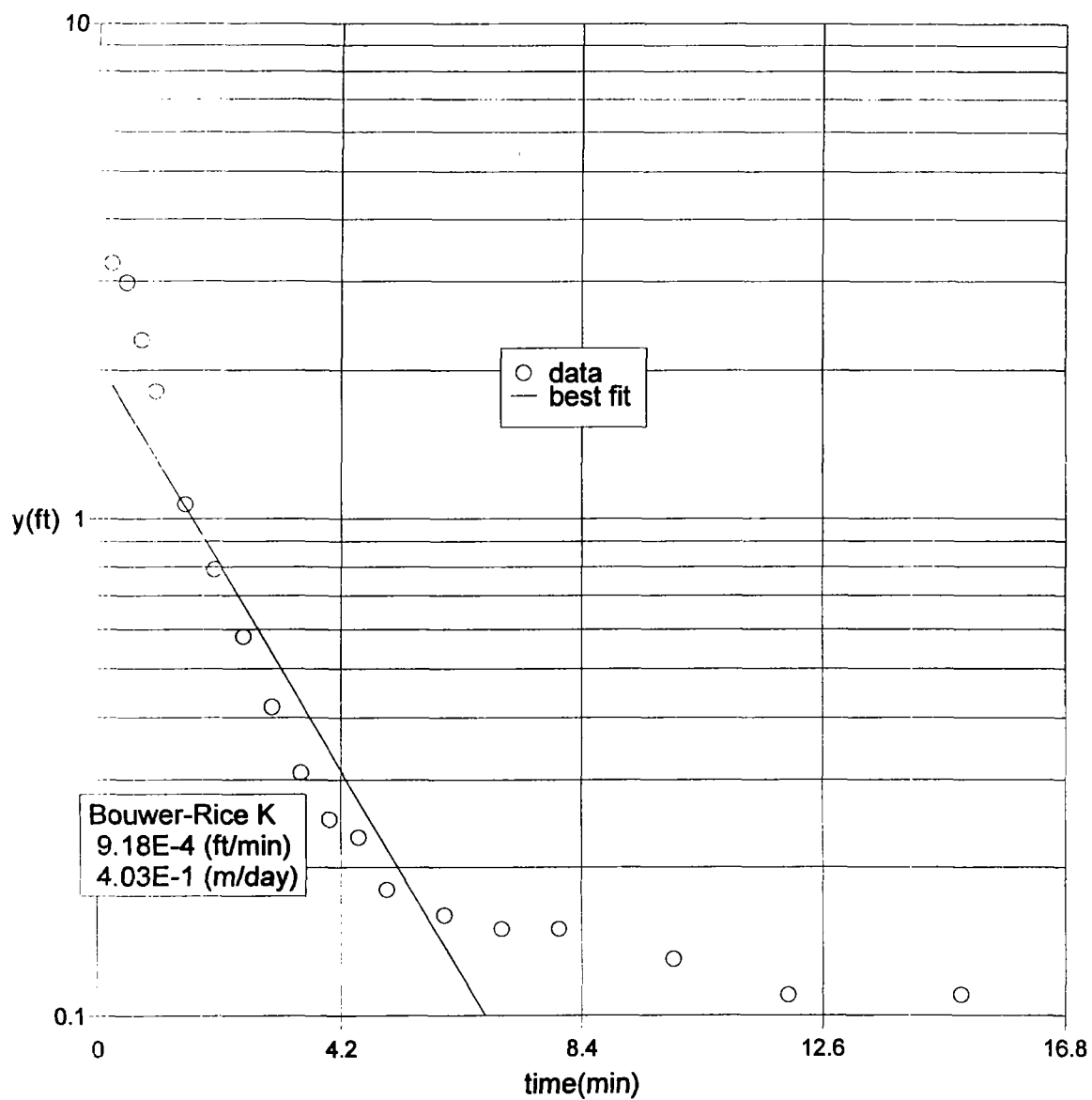
time(min)	y(ft)	weight	fit(ft)
0.25	4.880	0.0	4.722
0.5	4.800	0.0	4.668
0.75	4.690	1.0	4.615
1.0	4.650	1.0	4.562
1.5	4.510	1.0	4.458
2.0	4.370	1.0	4.356
2.5	4.240	1.0	4.257
3.0	4.110	1.0	4.160
3.5	3.990	1.0	4.065
4.0	3.840	1.0	3.972
4.5	3.760	1.0	3.882
5.0	3.690	1.0	3.793
6.0	3.500	1.0	3.622
7.0	3.380	1.0	3.459
8.0	3.270	1.0	3.303
10.0	3.160	1.0	3.012
12.0	2.910	1.0	2.746
15.0	2.600	1.0	2.391
20.0	1.990	1.0	1.899
25.0	1.420	1.0	1.508
30.0	1.160	1.0	1.197
40.0	0.760	0.0	0.755
50.0	0.450	0.0	0.476
60.0	0.360	0.0	0.300
75.0	0.240	0.0	0.150

Hydraulic Conductivity Well Diagram

Monitoring Well: MW9
Date Measured: 7/30/02



MW4



Slug Test Results

Title: 6/20/02
Client: Former Electro Finishers
Job Number: 6219801
Well Number: MW4

Hydraulic Conductivity

Bouwer-Rice: 9.18E-4 (ft/min), 4.03E-1 (m/day)

Well Geometry (ft)

H: 11.22
Le: 5.61
Lw: 5.61
rc: .08
rw: .17

drainable filter pack porosity: 0.15
effective radius: 9.89E-2 (ft)

Bouwer Rice Coefficients

Le/rw: 33.0
A: 2.504
B: 0.365
C: 2.094
n(Re/rw): 2.33

Least Squares Fit

slope: -4.52E-1
intercept: 7.33E-1

Recovery Data and Fit

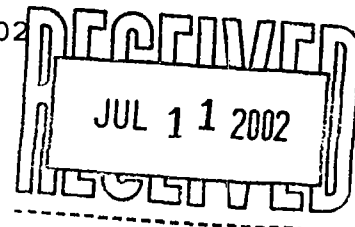
time(min)	y(ft)	weight	fit(ft)
0.25	3.260	0.0	1.859
0.5	2.980	0.0	1.660
0.75	2.290	1.0	1.483
1.0	1.810	1.0	1.324
1.5	1.070	1.0	1.056
2.0	0.790	1.0	0.842
2.5	0.580	1.0	0.672
3.0	0.420	1.0	0.536
3.5	0.310	1.0	0.428
4.0	0.250	1.0	0.341
4.5	0.230	1.0	0.272
5.0	0.180	1.0	0.217
6.0	0.160	1.0	0.138
7.0	0.150	1.0	0.088
8.0	0.150	0.0	0.056
10.0	0.130	0.0	0.023
12.0	0.110	0.0	0.009
15.0	0.110	0.0	0.002

APPENDIX F – GROUNDWATER ANALYSIS RESULTS

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/08/2002



FORMER ELECTRO FINISHERS
CHICAGO, ILLINOIS

Date Received: 06/22/2002
Job Number: 02.07541

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
682054 TWA-1 Project #6219801								
Chromium, hexavalent	<0.020	mg/L	IP,E,MSO	06/20/2002	06/24/2002	17:30	tlz	SM 3500-Cr D
Chromium, hex. diss.	<0.020	mg/L	IP,E	06/20/2002	06/24/2002	17:30	tlz	SM 3500-Cr D
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE			06/20/2002	07/06/2002		heh	
Lead, Dissolved (ICP)	<0.10	mg/L		06/20/2002	07/06/2002		heh	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		llw	SW 6010B
Lead, ICP	3.4	mg/L		06/20/2002	06/28/2002		llw	SW 6010B
682055 TWA-2 Project #6219801								
Chromium, hexavalent	<0.020	mg/L	IP,E	06/20/2002	06/24/2002	17:30	tlz	SM 3500-Cr D
Chromium, hex. diss.	<0.020	mg/L	IP,E,MSO	06/20/2002	06/24/2002	17:30	tlz	SM 3500-Cr D
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE			06/20/2002	07/06/2002		heh	
Lead, Dissolved (ICP)	<0.10	mg/L		06/20/2002	07/06/2002		heh	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		llw	SW 6010B
Lead, ICP	1.2	mg/L		06/20/2002	06/28/2002		llw	SW 6010B

Key to Flags:

- E - Estimated concentration for this analyte
- IP - Improperly preserved sample for this analyte.
- MSD - MS and/or MSD are out of control for this analyte

Linda Chmelik for the
Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/08/2002

FORMER ELECTRO FINISHERS
CHICAGO, ILLINOIS

Date Received: 06/22/2002
Job Number: 02.07541

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
682056 MW-4 Project #6219801								
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE		IE	06/20/2002	06/28/2002		11w	
Lead, Dissolved (ICP)	<0.50	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
Lead, ICP	<0.50	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
682057 MW-6 Project #6219801								
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE		IE	06/20/2002	06/28/2002		11w	
Lead, Dissolved (ICP)	<0.20	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
Lead, ICP	1.8	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
682058 MW-7 Project #6219801								
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE			06/20/2002	07/06/2002		heh	

Key to Flags:

IE - Elevated Reporting Limit due to interelement interference.

Linda Amelia Jones

Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/08/2002

FORMER ELECTRO FINISHERS
CHICAGO, ILLINOIS

Date Received: 06/22/2002
Job Number: 02.07541

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
682058 MW-7 Project #6219801								
Lead, Dissolved (ICP)	<0.10	mg/L		06/20/2002	07/06/2002		heh	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
Lead, ICP	0.59	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
682059 MW-8 Project #6219801								
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE			06/20/2002	06/28/2002		11w	
Lead, Dissolved (ICP)	<0.10	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
Lead, ICP	<0.10	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
682060 MW-9 Project #6219801								
ICP Metals Prep	D	mg/L		06/20/2002	06/26/2002		tdo	
Dissolved ICP Metals	COMPLETE			06/20/2002	06/28/2002		11w	
Lead, Dissolved (ICP)	<0.10	mg/L		06/20/2002	06/28/2002		11w	SW 6010B
ICP Metals - SW-6010B	Complete	mg/L		06/20/2002	06/28/2002		11w	SW 6010B

Key to Flags:

Kristin M. Clay
Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

07/08/2002

FORMER ELECTRO FINISHERS
CHICAGO, ILLINOIS

Date Received: 06/22/2002
Job Number: 02.07541

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
682060 MW-9 Project #6219801								
Lead, ICP	2.4	mg/L		06/20/2002	06/28/2002		llw	SW 6010B

Key to Flags:


Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

TestAmerica Job Number: 02.07541

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Seneca

Project: _____

City: _____

Date: 6/22/02 Receiver's Initials JP

Time (if Applicable): _____

Temperature Record

Cooler #1: 3 °C / On Ice
☒ Temp. Blank

Cooler #2: 4 °C / On Ice
☒ Temp. Blank

Cooler #3: _____ °C / On Ice
☐ Temp. Blank

Cooler #4: _____ °C / On Ice
☐ Temp. Blank

Thermometer:

☐ IR-905085

☐ CF07-03-T1

☒ IR-809065

☐ CF07-03-T2

Couriers

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input checked="" type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

DOC Completed Correctly? ☐ Yes ☐ No
 (Cite inconsistencies below)

Custody Seals Intact? ☐ Yes ☐ No
 (If Applicable)

<input type="checkbox"/>	Samples Not Received in a Cooler
<input type="checkbox"/>	Temperature Not Taken
<input type="checkbox"/>	Samples Received Within 6 hrs of sampling

Cooler Checklist (Check indicates conformance failure)

<input type="checkbox"/>	Received Broken	<input type="checkbox"/>	Improper Container	<input type="checkbox"/>	Temperature*
<input type="checkbox"/>	Improperly Preserved	<input type="checkbox"/>	Missing Sample	<input type="checkbox"/>	Extra Sample
<input type="checkbox"/>	Missing Label	<input type="checkbox"/>	Sample Past Hold Date	<input type="checkbox"/>	Improper Label
<input type="checkbox"/>	Insufficient Sample Volume	<input type="checkbox"/>	Other:		

Client Sample IDs:

Initial, Date: mf 6/24/02

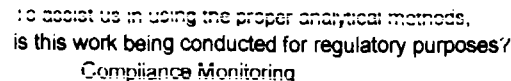
Remarks/Action Taken:

Rev Scott K, does need Cr4. Send HLD3 bottles only. Will do sample for Hex Chrome.

Log-In By:

NF MF EM
 OT

Refer to SOP CF01-01 for Temperature Criteria



Quote #: 02.0192 PO#: 157931

TAT	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	Analyze For:	QC Deliverables
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)					SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)		<input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____
Date Needed: _____								
Fax Results: Y N								
SAMPLE ID								REMARKS
TMW 1	6-20-02	8°A	G	Y	GW	X	Dissolved Pb and Cr to Total Pb and Cr to	
TMW 1	6-20-02	8°A	G	N	GW	I	X	
TMW 2	6-20-02	9°A	G	Y	GW	I	X	
TMW 2	6-20-02	9°A	G	N	GW	I	X	
MW 4	6-20-02	3°P	G	Y	GW	I	X	
MW 4	6-20-02	3°P	G	N	GW	I	X	
MW 6	6-20-02	4°P	G	Y	GW	I	X	
MW 6	6-20-02	4°P	G	N	GW	I	X	
MW 7	6-20-02	4°P	G	Y	GW	I	X	
MW 7	6-20-02	4°P	G	N	GW	I	X	
Special Instructions: Per conversation with Scott Killip on 6-24-02 - Go ahead and analyze cr6 + diss cr6 on TMW 1+2 - KC								Laboratory Comments: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N NA Bottles Supplied by TestAmerica: Y N Method of Shipment:
Relinquished By: [Signature]	Date: 6/21/02	Time: 3:00 P			Received By: [Signature]	Date: 6/21/02	Time: 12:30	
Relinquished By: [Signature]	Date: 6/21/02	Time: 1:50			Received By: [Signature]	Date: 6/22/02	Time: 8:00	
Relinquished By: [Signature]	Date:	Time:			Received By:	Date:	Time:	

Quote #: 02-0192 PO#: 157931

[illegible]

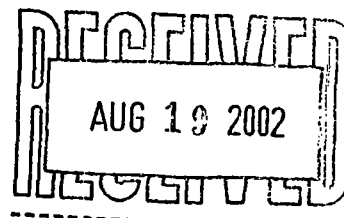
ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17351 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

08/13/2002

FORMER ELECTRO FINISHERS PROJECT #6219801
CHICAGO, ILLINOIS

Date Received: 07/31/2002
Job Number: 02.09359



	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
588897 TMW1 Project #6219801								
Chromium, hexavalent	<0.020	mg/L	RH	07/30/2002	07/31/2002	12:10	kmv	SM 3500-Cr D
ICP Metals Prep	D	mg/L	pH>2	07/30/2002	08/01/2002		mrm	
ICP Metals - SW-6010B	Complete			07/30/2002	08/02/2002		heh	SW 6010B
Chromium, ICP	0.831	mg/L		07/30/2002	08/02/2002		heh	SW 6010B
689898 TMW2 Project #6219801								
Chromium, hexavalent	<0.020	mg/L	RH	07/30/2002	07/31/2002	12:10	kmv	SM 3500-Cr D
ICP Metals Prep	D	mg/L	pH>2	07/30/2002	08/01/2002		mrm	
ICP Metals - SW-6010B	Complete			07/30/2002	08/02/2002		heh	SW 6010B
Chromium, ICP	2.8	mg/L		07/30/2002	08/02/2002		heh	SW 6010B
688899 MW4 Project #6219801								
Chromium, hexavalent	860	mg/L		07/30/2002	07/31/2002	12:10	kmv	SM 3500-Cr D

Key to Flags:

RE - Received at lab past the holding time for this analyte

pH>2 - Sample received at pH>2. Adjusted correctly prior to analysis.

Linda Cmelik for me
Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

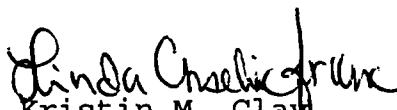
08/13/2002

FORMER ELECTRO FINISHERS PROJECT #6219801
CHICAGO, ILLINOIS

Date Received: 07/31/2002
Job Number: 02.09359

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
688900 MW6 Project #6219801 Chromium, hexavalent	340	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
688901 MW7 Project #6219801 Chromium, hexavalent	0.031	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
688902 MW8 Project #6219801 Chromium, hexavalent	<0.020	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
688903 MW5 Project #6219801 Chromium, hexavalent	<0.020	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
688904 MW3 Project #6219801 Chromium, hexavalent	80	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
Chromium, hex. diss.	77	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D

Key to Flags:


Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

ANALYTICAL REPORT

Scott Killip
SENECA ENVIRONMENTAL SERV.
17851 244th Avenue
P.O. Box 1208
Bettendorf, IA 52722

08/13/2002

FORMER ELECTRO FINISHERS PROJECT #6219801
CHICAGO, ILLINOIS

Date Received: 07/31/2002
Job Number: 02.09359

	Result	Units	Flags	Date Taken	Date Analyzed	Time Analyzed	Analyst	Analysis Method
638304 MWE Project #6219801								
ICP Metals Prep	D	mg/L		07/30/2002	08/01/2002		mrn	
Dissolved ICP Metals	COMPLETE			07/30/2002	08/02/2002		heh	
Lead, Dissolved (ICP)	<0.10	mg/L		07/30/2002	08/02/2002		heh	SW 6010B
ICP Metals - SW-6010B	Complete			07/30/2002	08/02/2002		heh	SW 6010B
Lead, ICP	<0.10	mg/L		07/30/2002	08/02/2002		heh	SW 6010B
638305 MWE Project #6219801								
Chromium, hexavalent	<0.020	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
Chromium, hex. diss.	<0.020	mg/L		07/30/2002	07/31/2002	12:20	kmv	SM 3500-Cr D
ICP Metals Prep	D	mg/L	pH>2	07/30/2002	08/01/2002		mrn	
Dissolved ICP Metals	COMPLETE			07/30/2002	08/02/2002		heh	
Lead, Dissolved (ICP)	<0.10	mg/L		07/30/2002	08/02/2002		heh	SW 6010B
ICP Metals - SW-6010B	Complete			07/30/2002	08/02/2002		heh	SW 6010B
Lead, ICP	<0.10	mg/L		07/30/2002	08/02/2002		heh	SW 6010B

Key to Flags:

pH>2 - Sample received at pH>2. Adjusted correctly prior to analysis.

Linda Chaslik for me
Kristin M. Clay
Operations Manager
Iowa Lab Certification - 7

TestAmerica Job Number: 02.09359

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Seneca

Project: 6219801

City: Bettendorf

Date: 7-31-02 Receiver's Initials CH

Time (if Applicable): _____

Temperature Record

Cooler #1 6 °C / On Ice
☒ Temp. Blank

Cooler #2: _____ °C / On Ice
☐ Temp. Blank

Cooler #3 _____ °C / On Ice
☐ Temp. Blank

Cooler #4: _____ °C / On Ice
☐ Temp. Blank

Thermometer:

☐ IR-905085

☐ CF07-03-T1

☒ IR-809065

☐ CF07-03-T2

Couriers

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> Client |
| <input type="checkbox"/> DHL | |
| <input type="checkbox"/> US Postal | <input type="checkbox"/> Other |

COC Completed Correctly? ☐ Yes ☐ No
(Cite inconsistencies below)

custody Seals Intact? ☐ Yes ☐ No
(If Applicable)

Cooler Checklist (Check indicates conformance failure)

<input type="checkbox"/>	Received Broken	<input type="checkbox"/>	Improper Container	<input type="checkbox"/>	Temperature*
<input type="checkbox"/>	Improperly Preserved	<input type="checkbox"/>	Missing Sample	<input type="checkbox"/>	Extra Sample
<input type="checkbox"/>	Missing Label	<input type="checkbox"/>	Sample Past Hold Date	<input type="checkbox"/>	Improper Label
<input type="checkbox"/>	Insufficient Sample Volume	<input type="checkbox"/>	Other:		

Client Sample IDs:

Remarks/Action Taken:

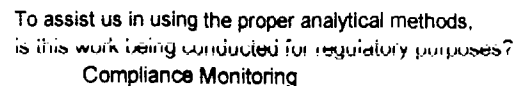
Initial/Date:

Log-In By:

NF MF EM

OT _____

*Refer to SOP CF01-01 for Temperature Criteria



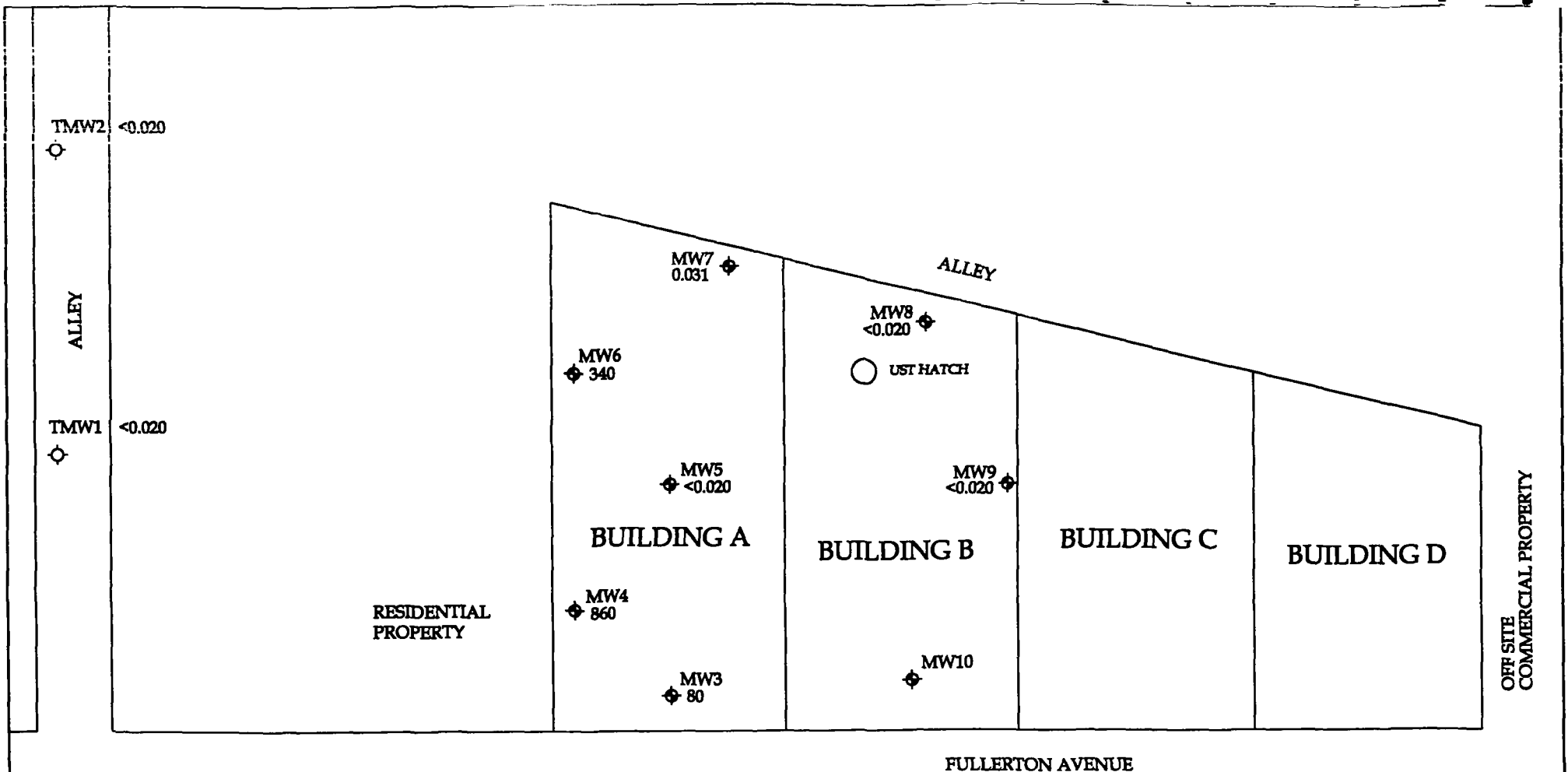
Quote #: PO#: *Call Amy*

→ 7/3/02 Per Todd. Do regular Crtb on all samples. Do diss Crtb on mw3 and mw5
Do total + dissolved Pb on mw3 and mw5 ICP method is OK

**APPENDIX G – TABULATED GROUNDWATER RESULTS AND
MAPS**

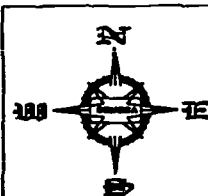
TABLE 3
GROUNDWATER ANALYSIS RESULTS
FORMER ELECTRO FINISHERS


[illegible]

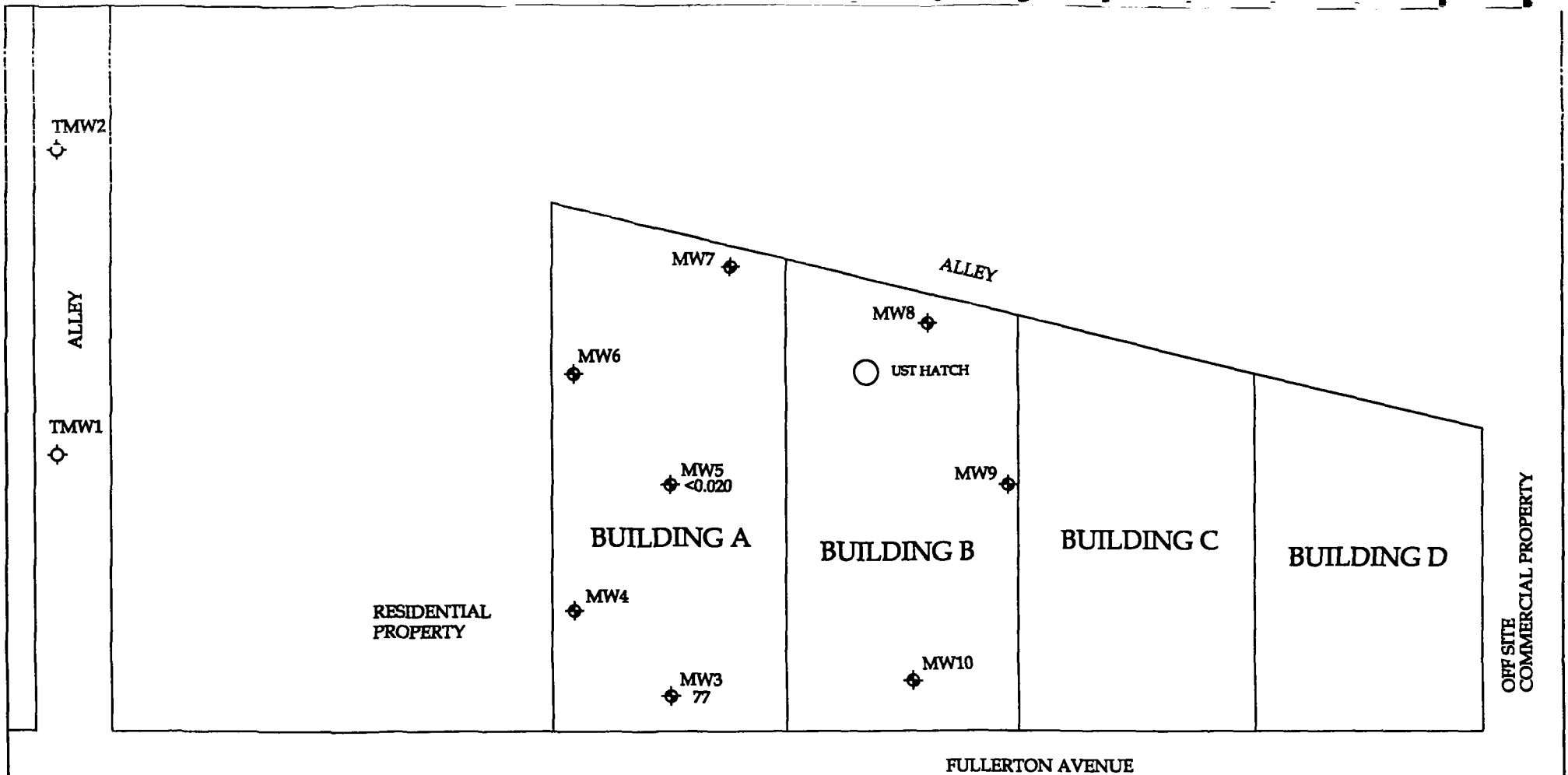


ALL DATA: mg/L

- ◊ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS

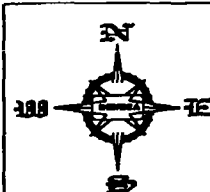



FILE NAME: FEF		 Seneca Environmental Services	REVISED:
PROJECT NO: 6219801			DATE: 09/16/02
SITE: FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS CHROMIUM, hexavalent - TOTAL		LUST#: N/A	REVIEWED BY: SK
		SCALE: 1" = 30'	DRAWN BY: RLH

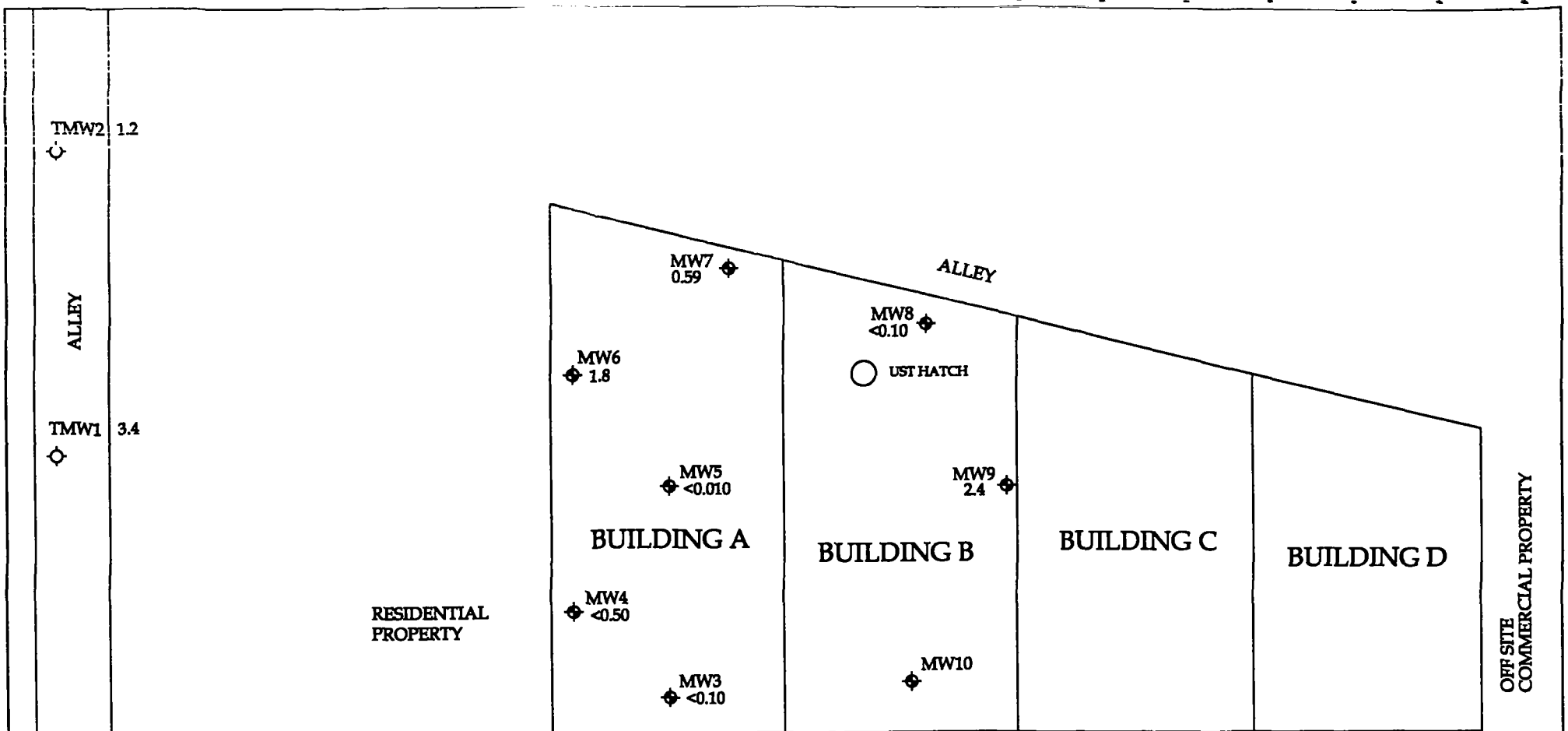


ALL DATA: mg/L

- ◇ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS



FILE NAME: FEF			Seneca Environmental Services		REVISED:
PROJECT NO: 6219801					DATE: 09/16/02
SITE:	FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS CHROMIUM, hexavalent - DISSOLVED			LUST#:	REVIEWED BY:
				N/A	SK
				SCALE:	DRAWN BY:
				1" = 30'	RLH



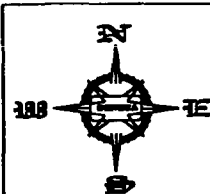
FULLERTON AVENUE


OFF SITE
COMMERCIAL PROPERTY

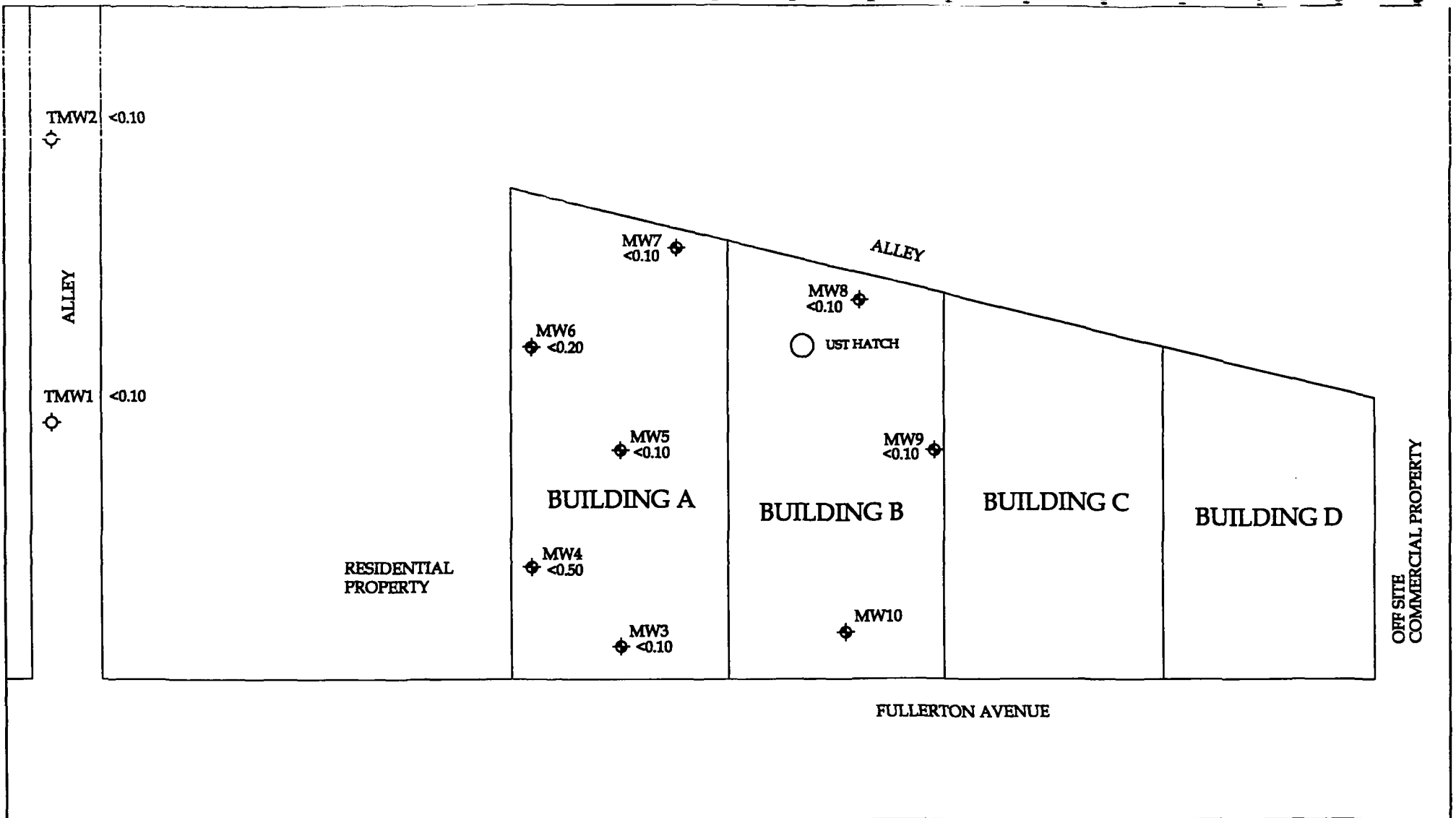
GROUNDWATER ANALYSIS RESULTS

ALL DATA: mg/L

- ◇ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS

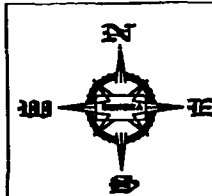



FILE NAME: FEF			Seneca Environmental Services		REVISED:
PROJECT NO: 6219801					DATE: 09/16/02
SITE:	FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS LEAD (ICP) - TOTAL			LUST#:	REVIEWED BY:
				N/A	SK
				SCALE:	DRAWN BY:
				1" = 30'	RLH

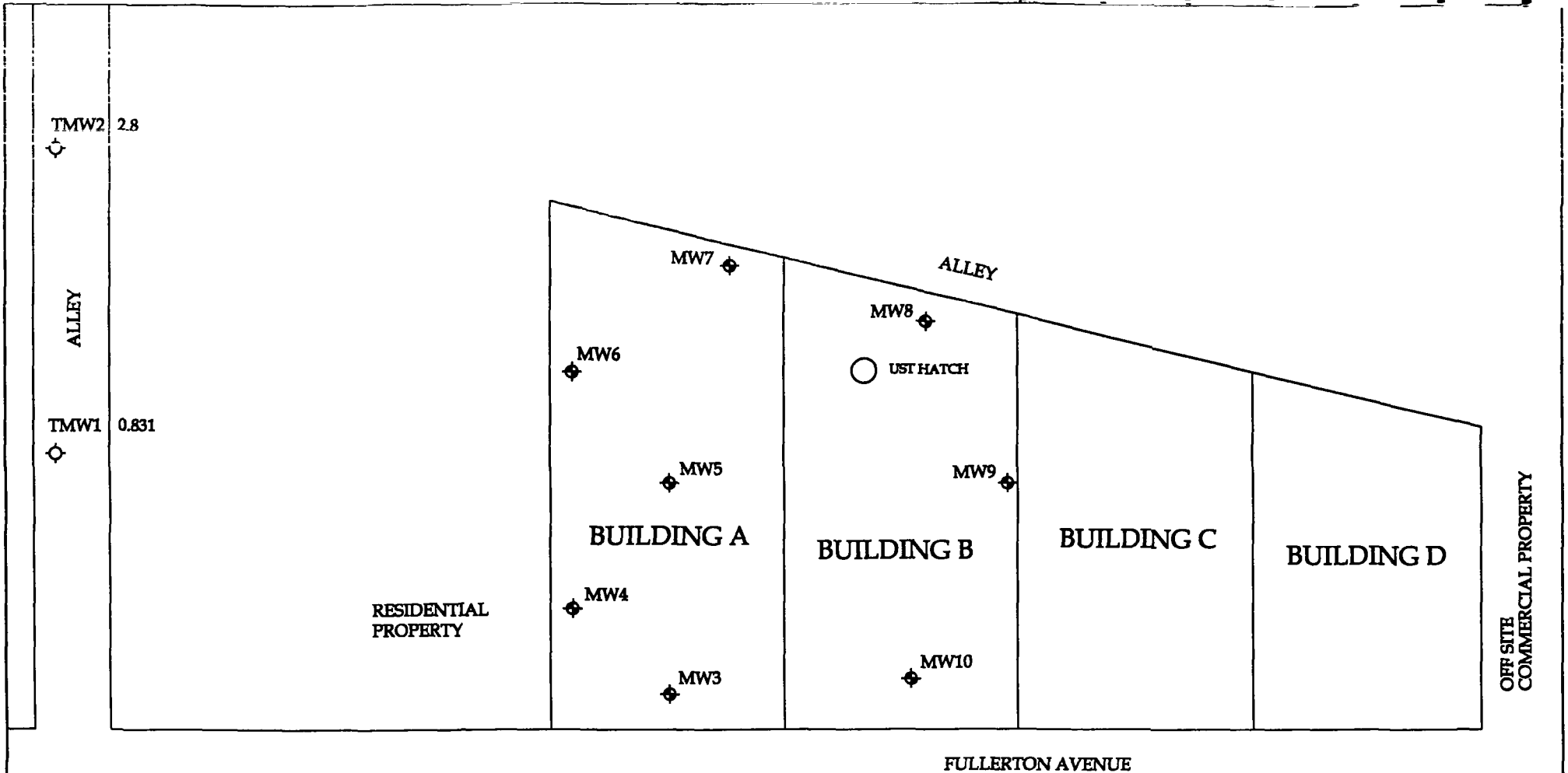


ALL DATA: mg/L

- ◇ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS

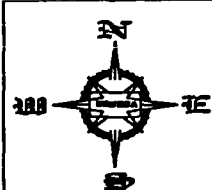



FILE NAME: FEF		 Seneca <i>Environmental Services</i>	REVISED:
PROJECT NO: 6219801			DATE: 09/16/02
SITE: FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS LEAD (ICP) - DISSOLVED	LUST#:	REVIEWED BY:	
	SCALE:	DRAWN BY:	
	N/A	SK	
	1" = 30'	RLH	



ALL DATA: mg/L

- ◇ TEMPORARY MONITORING WELL LOCATIONS
- ◆ PERMANENT MONITORING WELL LOCATIONS



FILE NAME: FEF			Seneca Environmental Services		REVISED:
PROJECT NO: 6219801					DATE: 09/16/02
SITE: FORMER ELECTRO FINISHERS 321 WEST FULLERTON AVENUE CHICAGO, ILLINOIS CHROMIUM (ICP) - TOTAL				LUST#: N/A	REVIEWED BY: SK
				SCALE: 1" = 30'	DRAWN BY: RLH

APPENDIX H – ASBESTOS INSPECTION REPORT

Asbestos Building Inspection
1662 W Fullerton
Chicago, Illinois

Asbestos Building Inspection Report

Site: 1662 W Fullerton
Chicago, Illinois

Northern Environmental Development, Inc.
1520 South Wabash, Chicago, Illinois 60605

Asbestos Building Inspection
1662 W Fullerton
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Asbestos Building Inspection Report

1662 W Fullerton

This inspection report and the recommendations contained within have been prepared by Illinois Department of Public Health licensed asbestos building inspector, Michael Casey ID# 100-6299. The building survey and sample collection were performed on 2/23/01. Report preparation was completed on 3/5/01.

Michael Casey
IDPH # 100-6299

Date 3/5/01


Signature


Date

**Asbestos Building Inspection
1662 W Fullerton
Chicago, Illinois**

APPENDICES

I. Summary

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Laboratory PLM Analytical Results**

Appendix B: Material Locations

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Laboratory NVLAP Accreditation**

N.E.D

Northern Environmental Development, Inc.

1520 South Wabash, Chicago, Illinois 60605 *Phone: (312) 341-9900 *Fax: (312) 341 - 9902

I. SUMMARY

Northern Environmental Development was retained by Mario Kazmarek to perform an Asbestos Building Inspection at 1652 W Fullerton, Chicago, Illinois. Illinois Department of Public Health licensed asbestos building inspector, Michael Casey license # 100-6299, performed the inspection on February 23, 2001. The sample results are contained in Appendix A of this report. The samples were analyzed by Polarized Light Microscopy (PLM) at Stat Analysis Corporation, a NVLAP accredited laboratory located in Chicago. Suspect asbestos-containing materials that were sampled included floor tiles, floor tile adhesives, ceiling tiles, and thermal pipe insulation. Please note that additional asbestos containing materials may exist in inaccessible areas such as above ceilings and inside the walls. In the event that additional suspect materials are encountered during renovation or demolition activities, cease work and contact an IDPH licensed inspector. If you have any questions regarding these sample results or recommendations, please feel free to contact us at (312) 341-9900

1.1 Inspector Recommendations

A total of seven homogeneous materials were identified, quantified and sampled. The following materials were found to contain greater than 1% asbestos by PLM analysis. Homogeneous area A (AirCell Pipe Insulation) contains 10-15% chrysotile asbestos. Homogeneous areas B & BM (12" Gray Floor Tile and Mastic) contain chrysotile 1-3% (Tile) and 5-10% (mastic). These materials should be removed by an Illinois Department of Public Health licensed Asbestos Abatement Contractor prior to demolition.

**Asbestos Building Inspection
1662 W Fullerton
Chicago, Illinois**

APPENDIX A

Homogeneous Area Summary Sheet

Laboratory PLM Analytical Results

Material Locations

APPENDIX A**HOMOGENEOUS MATERIAL SUMMARY SHEET**

Sampling Area	Material Description / Location	Square Ft / Linear Ft.	Sample #'s	Asbestos
A)	Air Cell TSI Throughout Building	200 lf	1-2-3 10-15% Chrysotile	YES
B)	12" Gray Floor Tile Storage behind Office	350sf	4-5-6 1-5% Chrysotile	YES
BM)	Black Mastic w/ 12" Gray FT		BM 4-5-6 5-10% Chrysotile	YES
C)	1'x1' Ceiling Tile Office area	450sf	7-8-9	NO
CG)	Glue associated w/ 1'x1' CT		CG 7-8-9	NO
D)	12" White floor Tile office washroom and entrance	100sf	10-11-12	NO
DM)	Mastic under 12" White FT		DM 10-11-12	NO

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, IL 60612-3547

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com

NVLAP &

**ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY**

Method: EPA-600/M4-82-020

Northern Environmental Development

1520 S. Wabash

Chicago, IL 60605

Phone: (312) 341-9900

Fax: (312) 341-9902

Client Reference:**Location:** 1662 W. Fullerton Chicago IL**STAT Batch No.:** 216982**STAT Client No.:** 251**Date Received:** 02/26/2001**Date Analyzed:** 02/28/2001**Date Reported:** 02/28/2001**Turn Around Time:** 48 Hour

Laboratory Sample	Client Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
216982001	A-01	Chrysotile 10-15%	Binder 85-90%
216982002	A-02	NA	
216982003	A-03	NA	
216982004	B-04	Chrysotile 1-3%	Binder 95-99%
216982005	B-05	NA	
216982006	B-06	NA	
216982007	Bm-4	Chrysotile 5-10%	Binder 90-95%
216982008	Bm-5	NA	
216982009	Bm-6	NA	
216982010	C-07	ND	Cellulose 99-100%
216982011	C-08	ND	Cellulose 99-100%
216982012	C-09	ND	Cellulose 99-100%
216982013	CG-7	ND	Binder 99-100%
216982014	CG-8	ND	Binder 99-100%
216982015	CG-9	ND	Binder 99-100%
216982016	D-10	ND	Binder 99-100%
216982017	D-11	ND	Binder 99-100%

ND = Asbestos Not Detected.

The results of this report relate only to the samples named. This report shall not be reproduced unless written approval has been obtained from the laboratory.

Analyzed by Name :

Title :

Date: 02/28/2001

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, IL 60612-3547

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com

NVLAP &

**ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY**

Method: EPA-600/M4-82-020

Northern Environmental Development

1520 S. Wabash

Chicago, IL 60605

Phone: (312) 341-9900

Fax: (312) 341-9902

Client Reference:

Location: 1662 W. Fullerton Chicago IL

STAT Batch No.: 216982

STAT Client No.: 251

Date Received: 02/26/2001

Date Analyzed: 02/28/2001

Date Reported: 02/28/2001

Turn Around Time: 48 Hour

Laboratory Sample	Client Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
216982018	D-12	ND	Binder 99-100%
216982019	Dm-10	ND	Cellulose 1-5% Binder 95-99%
216982020	Dm-11	ND	Cellulose 1-5% Binder 95-99%
216982021	Dm-12	ND	Cellulose 1-5% Binder 95-99%

ND - Asbestos Not Detected.

The results of this report relate only to the samples tested. This report shall not be reproduced unless written approval has been obtained from the laboratory.

Analyzed by Name :

Title :

Date: 02/28/2001

N.E.D INC.
Northern Environmental Development, Inc.
1520 S. Wabash Avenue Chicago, Illinois 60605 • Phone (312) 341-9900 • Fax (312) 341-9902

✓ 2/26/01
1:35 PM

CHAIN OF CUSTODY

(21)

216982

Sample #	Material Description	Location	Quantity	Concentration
A-01	Aircell TSE		CHRY 10-15	BPT-ET
A-02	Aircell TSE		N/A	
A-03	Aircell TSE		N/A	
B-04	10" Gray FT		CH1-3	BPT-ET
B-05	10" Gray FT		N/A	
B-06	10" Gray FT		N/A	
Bm-4	Black mastic w/ 10" Gray		CH 5-10	BPT-ET
Bm-5	Black mastic w/ 10" Gray		N/A	
Bm-6	Black mastic w/ 10"		N/A	

Relinquished By: [Signature] Date: 2/23/01 Received By: MB Date: 2/26/01

Analysis Requested: PLM Turn Around Time: 48 hr

Subject Site: 1662 W. Puller St
Chicago, IL

Please analyze until positive

N.E.D INC.

Northern Environmental Development, Inc.

1520 S Wabash Avenue Chicago, Illinois 60605 * Phone (312) 341-9900 * Fax (312) 341-9902

CHAIN OF CUSTODY

Sample #	Material Description	Location	Quantity	Concentration
C-07	1'x1' Ceily Tile		cell 5 F in	
C-08	1'x1' Ceily Tile		↓	
C-09	1'x1' Ceily Tile			
CG-7	Glue w/1'x1' CT		B 5 F in	
CG-8	Glue w/1'x1' CT		↓	
CG-9	Glue w/1'x1' CT			
D-10	12" White marble Floor Tile		B 5 F in	
D-11	12" White Marble FT		↓	
D-12	12" White Marble FT			

Relinquished By: _____ Date: _____ Received By: _____ Date: _____

Analysis Requested: _____ Turn Around Time: _____

Subject Site: 1662 W. Fullerton
Chicago, IL.

N.E.D INC.

Northern Environmental Development, Inc.

1520 S. Wabash Avenue Chicago, Illinois 60605 * Phone (312) 341-9900 * Fax (312) 341-9902

CHAIN OF CUSTODY

Sample # Material Description Location Quantity Concentration

Dm-10 Mastic w/ 12" white Marble FT

BT-ET, cell 1-5

Dm-11 Mastic w/ 12" white Marble FT

Dm-12 Mastic w/ 12" white Marble FT

Relinquished By: _____ Date: _____ Received By: _____ Date: _____

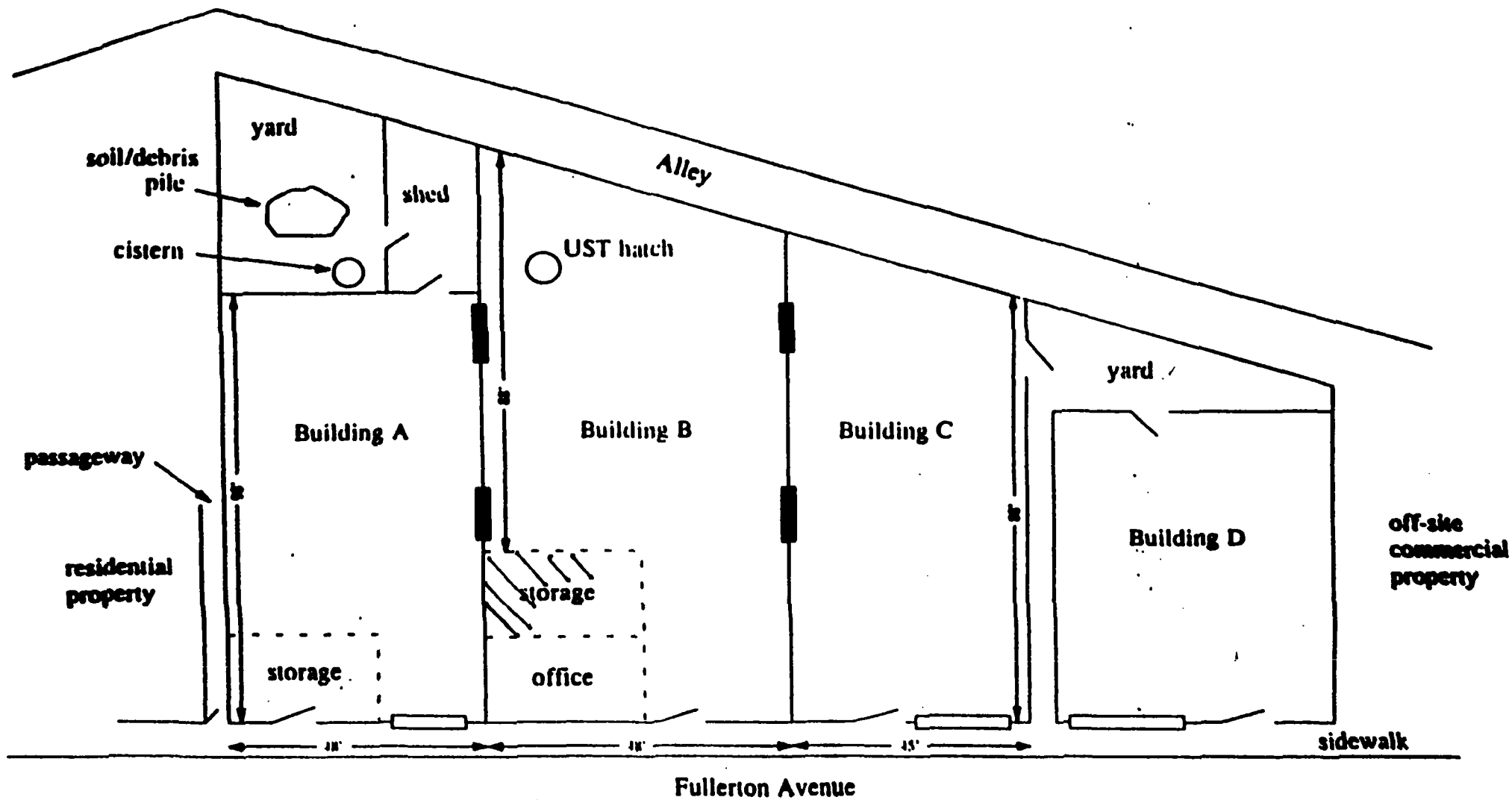
Analysis Requested: _____ Turn Around Time: _____

Subject Site: 1662 W. Fullerton
Chicago, IL.

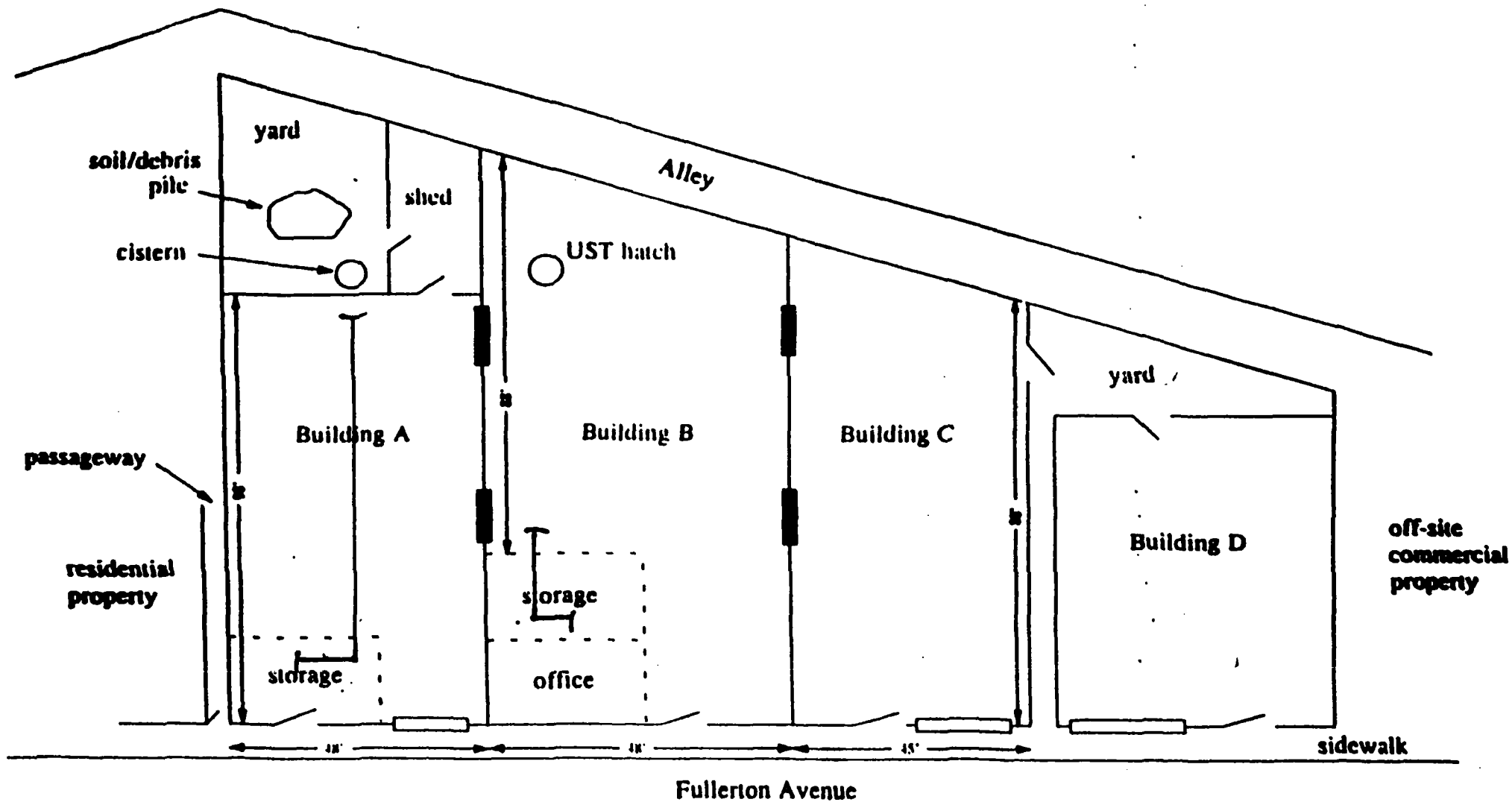
Asbestos Building Inspection
1662 W Fullerton
Chicago, Illinois

APPENDIX B

Material Locations



HA: (B) 12" Gray Floor Tile and Mastic 350 square feet



HA: (A) Air Cell Pipe Insulation 200 lineal feet



State of Illinois
Department of Public Health

A 109670

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

JOHN R. DUMPKIN, M.D.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I.D. NUMBER
05/15/2001	5319	100-6299
MICHAEL CASEY		
SUPERVISOR/WORKER MANAGEMENT PLANNER PROJECT MANAGER		
INSPECTOR AIR SAMPLING PROFESSIONAL		

BUSINESS ADDRESS

ASBESTOS PROFESSIONAL LICENSE

ALTERING THIS CERTIFICATE MAY RESULT IN LEGAL ACTION

MICHAEL CASEY

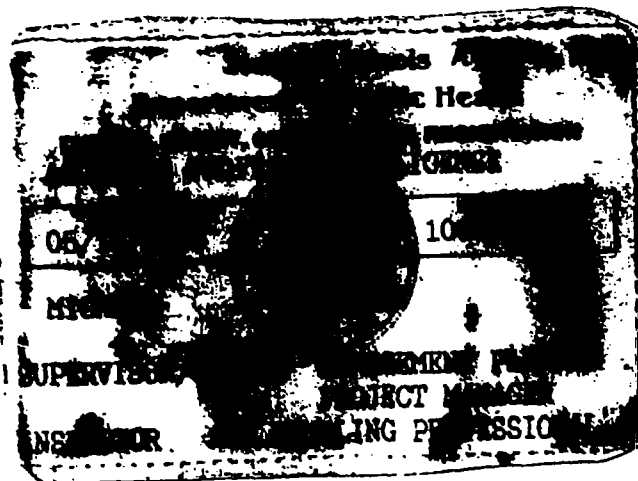
1425 W AUGUSTA BLVD APT#1R

CHICAGO IL 60622

THIS LICENSE IS NOT VALID IF YOUR 10PH

COURSE CERTIFICATE IS NOT CURRENT

Printed by Authority of the State of Illinois • 2/91 •



AMERISAFE TRAINING SERVICES

ASBESTOS BUILDING INSPECTOR INITIAL COURSE CERTIFICATE

IDPH & IDEM APPROVED

This is to certify

MICHAEL CASEY
319-64-6181

Has successfully completed the EPA/Approved Asbestos Building Inspector Initial Training Course and passed the Examination for purposes of accreditation under section 206 of Title II of the Toxic Substances Control Act (TSCA). Conducted by Amerisafe Training Services, 2050 N. 15th Avenue, Melrose Park, IL. 60160. 1-708-681-1250.

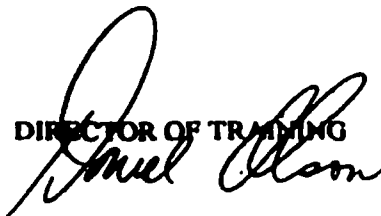
LOCATION **DEPAUL/NAPERVILLE &
AMERISAFE/MELROSE PARK**

EXAMINATION **MARCH 15, 2000**

COURSE DATES **MARCH 13-15, 2000**

EXPIRATION **MARCH 15, 2001**

DIRECTOR OF TRAINING



Certificate Number: **ATS 200191**



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



Page: 1 of 1

BULK ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101202-0

STAT ANALYSIS CORPORATION

2201 W. Campbell Park Dr.

Chicago, IL 60612-3501

Dr. Surendra N. Kumar

Phone: 312-733-0551 Fax: 312-733-2386

NVLAP Code

Designation

18/A01

EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk
Insulation Samples

June 30, 2001

Effective through

David F. Alderman

For the National Institute of Standards and Technology

APPENDIX I – TABULATED UST CONTENT ANALYSIS

**UST ANALYSIS DATA
FORMER ELECTRO FINISHERS
CHICAGO**

UST contents	Result	RCRA Limit
PCB (Total)	<2.0	2
Chromium	17	1
Cyanide (Amenable)	<0.5	0.5
Cyanide (Total)	4.5	1
ALL RESULTS IN ppm		

APPENDIX J – LETTER TO CDE REGARDING UST



Seneca Environmental Services

October 17, 2002

Mr. Raul Valdivia
Chicago Department of Environment
30 North LaSalle, 25th Floor
Chicago, IL 60602
Attn: Underground Storage Tank Notification

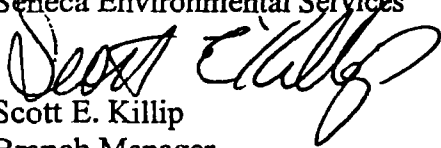
Re: UST
Former Electro Finishers
1662 West Fullerton Avenue
Chicago, IL

Dear Mr. Valdivia:

On behalf of the property owner of the Subject Property, I would like to notify the Chicago Department of Environment that an underground storage tank (UST) used to heating oil for consumptive use on the premises that located at this property is a pre January 1, 1974 UST. Based on these criteria, the UST should not require removal. Additionally, the UST is located in the interior of the Building and near a support beam for it. Removal of the UST would undermine the structural integrity of the Building

Thank you for your consideration of this request. Should you have any questions, please call me at (563) 332-8000.

Sincerely,
Seneca Environmental Services


Scott E. Killip
Branch Manager

cc: Lisa Kritt
James Petrozinni

Des Moines

P.O. Box 3360
4140 N.E. 14th Street
Des Moines, Iowa 50316-0360
515.262.3500
800.369.3500
515.262.2469 FAX

Bettendorf

17851 244th Avenue
Bettendorf, Iowa 52722
563.332.2272
800.728.6900
563.332.9465 FAX